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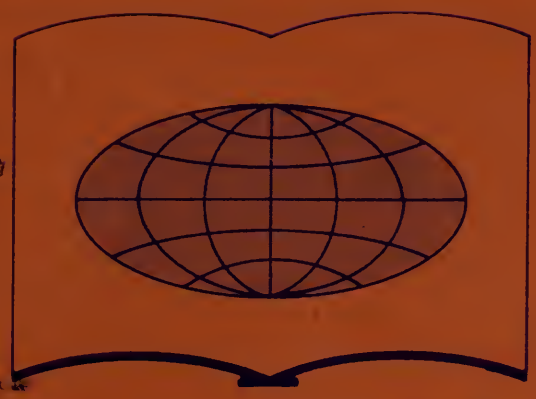

Volume 5 Number 7
March 28, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
March 28, 1969
Number 7

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture,* a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
Associated documentation

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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*This issue does not contain citations under this category.

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ENTOMOLOGY

3739-69
BULLETIN OF THE ENTOMOLOGICAL SOCIETY OF AMERICA.
Entomol Soc Amer Bull 15(1):72P
Mar 1969 423.9 EN8
Conferences, Entomology, Societies.

3740-69
WHAT THE PRACTITIONER SHOULD KNOW ABOUT ARTHROPODS. (GE)
K Russ
Pflanzenarzt 20(2):15-18
01 Feb 1967 464.9 P482
Arthropoda, Entomology, Eriophyidae, Insect pests, Mites, Oribatei, Tarsonemidae, Tetranychidae. To be continued.

SYSTEMATICS

3741-69
STUDIES ON THE CRAMBINAE (LEPIDOPTERA). PART 44. NEW NEOTROPICAL GENERA AND SPECIES. PRELIMINARY CHECK-LIST OF NEOTROPICAL CRAMBINAE.
S Bleszynski
Acta Zool Cracov 12(5):39-110 REF
30 Mar 1967 410 AC86
Crambinae, Insect taxonomy, Zoogeography.

3742-69
NEW PERILAMPIDAE (HYMENOPTERA: CHALCIDOIDEA).
B D Burks
Entomol Soc Wash Proc 71(1):73-81
Mar 1969 420 W27
Chalcidoidea, Chrysolampus anobii, Embia batesi, Embiidae, Euperilampus krombeini, Insect taxonomy, Parasitic insects, Perilampidae, Perilampus philembia.

3743-69
CONTRIBUTIONS TO THE KNOWLEDGE OF ANALGESOIDEA OF CZECHOSLOVAKIA. (FR)
V Cerny
Acta Ent Bohemoslov 58(3):288-293
20 Jul 1961 420 C33
Acarina, Analgesidae, Birds, Parasitism, Taxonomy, Zoogeography. Czech summary.

Description of 14 species and sub-species belonging to the following families: Freyanidae, Pterolichidae, Dermoglyphidae, Analgesidae plus a listing of bird hosts.

3744-69
TO THE FAUNA OF IXODID TICKS OF MONGOLIA.
M Dash
Folia Parasitol 16(1):18
1969 436.8 C33
Catalogs, Host relationships, Insect geography, Ixodidae, Seasonal variation, Surveys.

3745-69
CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION OF A. VILLIERS AND A. DESCARPENTRIES. XLV. COLEOPTERA OCHODAEIDAE. (FR)
J Decelle
Inst Fondamental Afr Noire Bull Ser A Sci Natur 29(1):344
Jan 1967 515 D14
Coleoptera, Insect taxonomy, Zoogeography.

3746-69
CLIMATE AND THE PHYLOGENY AND DISTRIBUTION OF TABANIDAE.
G B Fairchild
Entomol Soc Amer Bull 15(1):7-11 REF
Mar 1969 423.9 EN8
Climate, Insect genetics, Insect taxonomy, Tabanidae, Zoogeography.

3747-69
CATALOG OF THE COLEOPTERA OF ANGOLA. (POR)
M C Ferreira
Rev Entomol Mocambique 8(2):415-1317 MAP REF
1965 421 R3294
Catalogs, Coleoptera, Insect taxonomy, Zoogeography.

3748-69
THREE NEW RECORDS OF THE GENUS PHANAEUS FROM GEORGIA (COLEOPTERA: SCARABAEIDAE).
G T Fincher R Davis T B Stewart
Entomol Soc Wash Proc 71(1):71-72
Mar 1969 420 W27
Insect taxonomy, Phanaeus igneus nigrocyaneus, Phanaeus torrens niger, Phanaeus vindex cyanellus, Scarabaeidae, Zoogeography.

3749-69
A NEW GENUS AND TWO NEW SPECIES OF CECIDOMYIIDAE ASSOCIATED WITH PARIANA SPP. (GRAMINEAE) IN SOUTH AMERICA (DIPTERA).
R J Gagne
Entomol Soc Wash Proc 71(1):108-111
Mar 1969 420 W27
Cecidomyiidae, Chauliodontomyia egregia, Chauliodontomyia parianae, Grasses, Insect taxonomy, Pariana.

3750-69
GEOGRAPHIC DISTRIBUTION OF THE ANT GENUS FORMICA (HYMENOPTERA: FORMICIDAE).
R E Gregg
Entomol Soc Wash Proc 71(1):38-49 MAP REF
Mar 1969 420 W27
Formicidae, Insect morphology, Social insects, Zoogeography.

3751-69
A NEW CLICK BEETLE OF THE GENUS AGRIOTES ESCH. (COLEOPTERA,ELATERIDAE) FROM SOVIET CENTRAL ASIA.
Y L Gur'yeva
Entomol Rev 46(1,JAN-MAR):121-122
1967 421 R322AE
Agriotes, Coleoptera, Elateridae, Insect taxonomy, Zoogeography. The new click beetle identified is Agriotes tadzhikistanicus previously identified as Agriotes nadari and Agriotes squalidus.

3752-69
LETTERS ON LEAF MINERS. (GE)
E M Hering
Dr. W. Junk N.V., The Hague, Netherlands 450P
1968 SB945.L55H4
Agromyzidae, Host indexing (plants), Insect taxonomy, Insects, Leaf miners, Liriomyza.

3753-69
THE LARVA OF CARABUS (HYGROCARABUS THOMS.) VARIOLOSUS VARIOLOSUS FABR. AND ITS POSITION IN THE LARVAL SYSTEM OF GENUS CARABUS L. (COLEOPTERA, CARABIDAE). (GE)
K Hurka
Acta Ent Bohemoslov 58(3):266-271 REF
20 Jul 1961 420 C33
Carabidae, Carabus, Insect morphology, Insect taxonomy, Larvae. Czech summary.

3754-69
ON THE ORTHOPTEROUS FAUNA IN THE SOUTH OF THE KRASNOYARSK TERRITORY.
I V Ivanova
Entomol Rev 46(1,JAN-MAR):72-80 REF
1967 421 R322AE
Acridoidea, Orthoptera, Surveys, Zoogeography.

3755-69
NOTES ON THE CHRYSOMELIDAE FROM TAIWAN I.
S Kimoto
Kontyu 35(4):368-374
Nov 1967 421 K833
Chrysomelidae, Coleoptera, Insect identification, Zoogeography. 5 subfamilies (Zeugophorinae, Megalopodinae, Donaciinae, Criocerinae, and Clytrinae) and 30 species are discussed.

3756-69
A NEW SPECIES ON NEOTROPICAL SEED WEEVIL AFFECTING PIGEON PEAS, WITH NOTES ON TWO CLOSELY RELATED SPECIES(COLEOPTERA: BRUCHIDAE: BRUCHINAE).
J M Kingsolver
Entomol Soc Wash Proc 71(1):50-55 REF
Mar 1969 420 W27
Acanthoscelides armitagei, Acanthoscelides distinguendus, Acanthoscelides ochraceicolor, Acanthoscelides zeteki, Bruchidae, Coleoptera, Insect taxonomy, Neotropical Region, Pigeonpeas.

3757-69
A NEW SPECIES OF ANTONINA SIGNORET FROM SOUTH DAKOTA WITH NEW RECORDS FOR A. BOUTELOUAE PARROTT (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE).
M Kosztarab B McDaniel
Entomol Soc Wash Proc 71(1):111-114
Mar 1969 420 W27
Antonina bouteloua, Antonina dakotensis, Bouteloua gracilis, Bouteloua hirsuta, Grasses, Insect taxonomy, Pseudococcidae.

3758-69
PAPILIONOIDEA AND HESPERIOIDEA (LEPIDOPTERA) OF THE VIRGIN FOREST OF BIALOWIESKI. (POL)
M Krzywicki
Pol Akad Nauk Inst Zool Ann Zool 25(1):213P REF
15 Jun 1967 410.9 W26
Butterflies, Hesperiidae, Illustrations, Insect ecology, Insect taxonomy, Lepidoptera, Tables (data), Zoogeography. German and Russian summaries.

3759-69
ON THE STATUS OF CRESSON'S STENOPHASMUS SPECIES FROM CUBA (HYMENOPTERA: BRACONIDAE: DORYCTINAE).
R W Matthews P M Marsh
Entomol Soc Wash Proc 71(1):94-98
Mar 1969 420 W27
Braconidae, Insect taxonomy, Ptesimogaster gundlachii, Zoogeography. S. gundlachii and S. mecischoides are transferred to Ptes imogaster; S. cubensis and S. pusillus are synonyms of S. gundlachii.

3760-69
THE PALEARCTIC SPECIES OF MEGATOMA HERBST (COLEOPTERA, DERMESTIDAE).
M Mroczkowski
Pol Pismo Entomol 37(1):3-24 MAP REF
15 Aug 1967 421 P76
Dermestidae, Insect taxonomy, Megatoma, Zoogeography. Polish summary.

3761-69
TAXONOMY AND DISTRIBUTION OF THE PALEARCTIC NEMAPOGON SPECIES (LEPIDOPTERA, TINEIDAE). (GE)
G Petersen
Acta Ent Bohemoslov 58(3):272-283
20 Jul 1961 420 C33
Insect taxonomy, Nemapogon levantinus, Nemapogon orientalis, Tineidae, Zoogeography.

3762-69
CONODONTIS PEPLARIA GEYER, A NOCTUID, NOT A GEOMETRID (LEPIDOPTERA).
R W Poole
Entomol Soc Wash Proc 71(1):107
Mar 1969 420 W27
Geometridae, Insect taxonomy, Noctuidae, Nomenclature, Zethes peplaria.

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SOLIERELLA NITRARIA SP. N. (HYM., SPHECIDAE). (FR)
W Pulawski
Pol Pismo Entomol 37(1):65-68
15 Aug 1967 421 P76
Insect identification, Insect taxonomy, Solierella nitraria, Sphecidae. Polish summary.

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SOUTH AMERICAN COCHYLIDAE (LEPIDOPTERA) FROM THE COLLECTION OF THE BRITISH MUSEUM (NATURAL HISTORY).
J Razowski
Acta Zool Cracov 12(8):163-210
30 Sep 1967 410 AC86
Insect taxonomy, Lepidoptera.

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THE COLONIZATION OF LAKE CONSTANCE WITH CHIRONOMIDAE. (GE)
F Reiss
Umschau 68(23):721-722
07 Nov 1968 474 UM7
Aquatic insects, Chironomidae, Insect ecology, Insect populations, Zoogeography.

3766-69
ECOLOGICAL AND SYSTEMATIC INVESTIGATIONS OF THE CHIRONOMIDAE (DIPTERA) OF LAKE CONSTANCE. A CONTRIBUTION TO THE LAKE CHIRONOMIDE FAUNA OF THE NORTHERN FOOTHILLS OF THE ALPS. (GE)
F Reiss
Hohemheim Landwirt Hochsch Diss (21):176-323 REF
Jun 1966 105.8 H686D
Aquatic insects, Chironomidae, Insect ecology, Insect populations, Insect taxonomy, Limnology, Zoogeography. English summary.

Reprint from: Archiv fur Hydrobiologie 64(2):176-323, Mar 1968, Stuttgart, West German.

3767-69
FAUNA OF THE HETEROPTERA ON TOWN WASTE NEOPEDON OF THE PRAGUE PERIPHERY. (CZ)
J Roubal
Acta Ent Bohemoslov 58(3):239-260 MAP REF
20 Jul 1961 420 C33
Flora, Heteroptera, Vegetation, Zoogeography. English summary.

3768-69
A CONTRIBUTION TO THE GENUS MANTIS LINNE AND PARAMANTIS, NOV. (MANTIDAE). (FR)
R Roy
Inst Fondamental Afr Noire Bull Ser A Sci Natur 29(1):126-149 REF
Jan 1967 515 D14
Insect identification, Insect taxonomy, Mantidae, Zoogeography. 8 species of the new genus Paramantis are newly described.

3769-69
A NEW SPECIES OF PENTHETRIA FROM JAPAN (DIPTERA, BIBIONIDAE).
M Sasakawa
Kontyu 35(4):361-363
Nov 1967 421 K833
Bibionidae, Insect identification, Insect taxonomy, Penthetria ritsumeikana. Japanese summary.

3770-69
FAUNA AND ECOLOGY OF MOSQUITOES IN THE SOUTHERN PART OF THE MOSCOW DISTRICT. (RUS)
O N Sazonova
Moskov Obshch Ispytalelei Prirody Byul Otd Biol 73(2):63-80 REF
1968 511 M85
Culicidae, Insect ecology, Tables (data), Zoogeography. English summary.

3771-69
SUPPLEMENTARY COMMUNICATION CONCERNING THE OCCURRENCE OF CARADRINA KADENII FRR. (LEP.NOCT.) IN SWITZERLAND. (GE)
A Schmidlin
Entomol Gesell Basel 14(3,MAY-JUN):61
1964 QL461.E58
Lepidoptera, Noctuidae, Zoogeography.

3772-69
ON NOCTURNAL DARKLING BEETLES OF THE GENUS MELANESTHES LAC. (COLEOPTERA, TENEBRIONIDAE) FROM CENTRAL KAZAKHSTAN.
N G Skopin
Entomol Rev 46(1,JAN-MAR):123-125
1967 421 R322AE
Insect taxonomy, Melanesthes, Nomenclature, Tenebrionidae.

3773-69
THE GENUS SUSANA ROHWER AND MIDDLETON (HYMENOPTERA: TENTHREDINIDAE).
D R Smith
Entomol Soc Wash Proc 71(1):13-23 MAP
Mar 1969 420 W27
Hymenoptera, Insect taxonomy, Susana annulata, Susana oregonensis, Susana punctata, Susana rufa, Tenthredinidae.

3774-69
COLLEMBOLA FAUNA OF MALTA.
J Stach
Acta Zool Cracov 12(15):393-418 REF
30 Nov 1967 410 AC86
Collembola, Insect taxonomy, Surveys, Zoogeography.

3775-69
THE ENTOMOLOGY OF THE ISLE OF RHUM NATIONAL NATURE RESERVE.
W O Steel G E Woodroffe
Soc Brit Entomol Trans 18(6):91-167 MAP
Mar 1969 420 SO15
Catalogs, Insect ecology, Insect taxonomy, Population, Surveys.

An extensive list of insect species collected on the Isle of Rhum in the Hebrides by the British Nature Conservancy is provided.

3776-69
ACALYPTA PULCHRA SP. N.- A NEW SPECIES OF TINGIDAE FROM BULGARIA. (HETEROPTERA, TINGIDAE). (GE)
J M Stusak
Acta Ent Bohemoslov 58(3):261-265 REF
20 Jul 1961 420 C33
Acalypta pulchra, Insect morphology, Insect taxonomy, Tingidae. Czech summary.

3777-69
ON THE IDENTITY OF 'DASYTHORAX OGASAWARAE MATSUMURA' (LEPIDOPTERA, NOCTUIDAE, CUCULLIINAE).
S Sugi
Kontyu 35(4):364-367
Nov 1967 421 K833
Cuculliinae, Dasypolia lama, Dasythorax ogasawarae, Insect identification, Insect taxonomy, Noctuidae. Japanese summary.

3778-69
MORPHO-SYSTEMATIC STUDIES ON COLLEMBOLA PART 0I. MATERIALS TO A REVISION OF THE GENUS LEPIDOCYRTUS BOURLET, 1839 (ENTOMOBRYIDAE S. L.).
A Szeptycki
Acta Zool Cracov 12(13):369-377
30 Nov 1967 410 AC86
Collembola, Insect names, Insect taxonomy.

3779-69
THREE NEW SPECIES OF ERIOPHYID MITES (ACARIFORMES: ERIOPHYIDAE, RHYNCAPHYTOPTIDAE) FROM POLAND.
W Szulc
Acta Zool Cracov 12(4):31-37 REF
15 Mar 1967 410 AC86
Eriophyidae, Insect taxonomy, Zoogeography.

3780-69
TAXONOMIC AND NOMENCLATURAL NOTES ON GONODONTA OBESA (WALKER)(LEPIDOPTERA: NOCTUIDAE).
E L Todd
Entomol Soc Wash Proc 71(1):58-61
Mar 1969 420 W27
Gonodonta obesa, Insect taxonomy, Noctuidae, Nomenclature.

3781-69
NEW DISTRIBUTION RECORDS FOR MEROPLEON TITAN TODD (CEPIDOPTERA: NOCTUIDAE).
E L Todd
Entomol Soc Wash Proc 71(1):9
Mar 1969 420 W27
Insect taxonomy, Meropleon titan, Zoogeography.

3782-69
THE NEOTROPIC SPECIES OF XANTHOPIMPLA (HYMENOPTERA: ICHNEUMONIDAE).
H Townes
Entomol Soc Wash Proc 71(1):82-88
Mar 1969 420 W27
Ichneumonidae, Insect identification, Insect taxonomy, Neotropical Region, Xanthopimpla.

3783-69
SPHECOIDEA FROM THE RYUKYUS AND FORMOSA (HYMENOPTERA).
K Tsuneki
Kontyu 35(4):382-390
Nov 1967 421 K833
Hymenoptera, Insect identification, Insect taxonomy, Sphecoidea, Zoogeography. 29 species are discussed of the subfamilies Sphecinae, Philanthinae, Nyssoninae, and Larrinae.

3784-69
STUDIES ON THE INSECT FAUNA ON SCOTCH BROOM SAROTHAMNUS SCOPARIUS (L.) WIMMER.
N Waloff
Adv Ecol Res 5:88-208 REF
1968 410 AD92
Birds, Cytisus scoparius, Insect ecology, Insect flight, Insect pests, Predaceous insects, Spiders.

3785-69
A NEW SPECIES OF ERIOCOCCUS INFESTING AMERICAN BEACH-GRASS IN NORTH CAROLINA (HOMOPTERA: COCCOIDEA).
D J Williams
Entomol Soc Wash Proc 71(1):90-93
Mar 1969 420 W27
Ammophila breviligulata, Coccoidea, Eriococcus carolinae, Insect identification, Insect taxonomy.

3786-69
MATERIALS TO THE KNOWLEDGE OF THE SCALE INSECTS FAUNA OF YUGOSLAVIA (HOMOPTERA, COCCOIDEA).
B Zak-Ogaza
Acta Zool Cracov 12(9):211-217 REF
30 Sep 1967 410 AC86
Coccoidea, Insect taxonomy, Surveys, Zoogeography.

3787-69
NEW SPECIES OF HYPERA (COLEOPTERA, CURCULIONIDAE) FROM THE CRIMEAN MOUNTAINS.
V A Zaslavskiy
Entomol Rev 46(1,JAN-MAR):138-141
1967 421 R322AE
Curculionidae, Hypera, Insect taxonomy, Zoogeography.

PHYSIOLOGY AND BIOCHEMISTRY

3788-69
THE CONJUGATED PLASMA PROTEINS IN ADULT FEMALES OF PERIPLANETA AMERICANA (L.) UNDER STARVATION AND OTHER STRESS.
K G Adiyodi K K Nayar
Compar Biochem Physiol 27(1):95-104 REF
Oct 1968 444.8 C73
Blood proteins, Electrophoresis, Glycoproteins, Insect nutrition, Insect physiology, Lipids, Periplaneta americana, Starvation, Stress.

3789-69
PINOCYTOSIS DURING VITELLOGENESIS IN THE MEALWORM, TENEBRIO MOLITOR L. (COLEOPTERA, TENEBRIONIDAE).
S K Aggarwal
Acta Ent Bohemoslov 65(4):272-275 REF
1968 420 C33
Insect physiology, Pinocytosis, Synthesis, Tenebrio molitor, Yolk sac. Czech summary.

3790-69
CONTROLLING HOUSEHOLD PESTS.
U S D A Home Gard Bull (96):32P
Feb 1969 1 AG84HG
Accident prevention, Chemical control (pests), Household pests, Insects, Pesticide application, Pesticides, Rodents.

3791-69
THE EXCITATION OF INSECT SKELETAL MUSCLES.
D J Aidley
Advances Insect Physiol 4:1-31 REF
1967 420 AD9
Insect physiology, Muscles, Neurology.

3792-69
INSECTS AND MITES OF LIVESTOCK AND IN FARM BUILDINGS.
W C Allan
Ontario Dep Agr Publ 91:16 P.
7 ON8P
Cattle, Chemical control (pests), Dairy cattle, Farm buildings, Goats, Horses, Insects, Livestock, Milk, Mites, Poultry, Sheep, Stables, Swine, Tables (data). Published by Ontario Dept. of Agriculture and Food, parliament buildings, toronto.

3793-69
THREE SPECIES OF MEXICAN KROMBEINIA HAVING AN ELONGATED TEGULA WITH AN EXTENDED APICAL ANGLE (HYMENOPTERA: TIPHIIDAE).
H W Allen
Entomol Soc Wash Proc 71(1):99-102
Mar 1969 420 W27
Insect anatomy, Krombeinia evansi, Krombeinia nayarita, Krombeinia veracruzae, Tegula, Tiphiidae.

3794-69
REMINISCENCE IN THE COLD FLOUR BEETLE (TENEBRIO MOLITOR).
T M Alloway A Routtenberg
Science 158(3804):1066-1067
24 Nov 1967 470 SCI2
Insect physiology, Statistical analysis, Tenebrio molitor.

3795-69
LARVAE OF INJURIOUS BEETLES (COLEOPTERA) IN THE SOILS OF THE ARCHEDA FOREST FARM, VOLGOGARD PROVINCE.
N S Andrianova
Entomol Rev 46(1,JAN-MAR):81-91 REF
1967 421 R322AE
Coleoptera, Insect ecology, Insect pests, Larvae, Soil insects.

3796-69
MICROTERYS CLAUSENI COMPERE (HYM.: ENCYRTIDAE). (JA)
Anonymous
Kontyu 35(4):336
Nov 1968 421 K833
Ceroplastes japonicus, Ceroplastes pseudoceriferus, Coccidae, Encyrtidae, Microterys clauseni, Parasitic insects.

3797-69
A SURVEY OF LEAF-MINERS AND THEIR PARASITES ON LABURNUM.
R R Askew
Roy Entomol Soc London Trans 120(PT 1):37P REF
1968 420 L84
Agromyzidae, Diptera, Insect biology, Insect morphology, Laburnum, Lepidoptera, Lyonetiidae, Ornamental trees, Parasitic insects, Surveys.

3798-69
ISOLATION AND CHARACTERIZATION OF RIBONUCLEIC ACID FROM MUSCA DOMESTICA (L.).
I Balazs M Agosin
Compar Biochem Physiol 27(1):227-237 REF
Oct 1968 444.8 C73
Extracts, Fractionation, Musca domestica, Nucleotides, Ribonucleic acid, Sucrose, Tissue culture.

3799-69
MORTALITY OF MATURE BEETLES IPS TYPOGRAPHUS (L.) (COL., SCOLYTIDAE) IN THE GALLERIES AND ITS CAUSES. (POL)
S Balazy J Bargielski G Ziolkowski C Czerwinska
Pol Pismo Entomol 37(1):201-205
15 Aug 1967 421 P76
Bacteria, Entomogenous fungi, Forest insects, Ips typographicus, Microorganisms, Mortality, Nematodes, Parasitism, Predaceous insects, Protozoa, Scolytidae. English summary.

3800-69
INSECTS AND PHYSIOLOGY; ESSAYS PRESENTED TO SIR VINCENT WIGGLESWORTH, CBE, MD, FRS ON HIS RETIREMENT FROM THE QUICK CHAIR OF BIOLOGY AND DIRECTORSHIP OF THE UNIT OF INSECT PHYSIOLOGY IN THE UNIVERSITY OF CAMBRIDGE.
J W L Beament J E Treherne
American Elsevier Pub. Co., New York 378P REF
1968 QL495.15
Central nervous system, Insect behavior, Insect flight, Insect morphology, Insect physiology, Permeability, Pharmacology, Reproduction, Secretion, Sense organs.

3801-69
A CONTRIBUTION TO THE BIONOMICS AND MORPHOLOGY OF RHADINOCERAEA REITTERI KNW. WITH A DESCRIPTION OF THE LARVA. (HYM., TENTHREDINIDAE).
K Benes
Acta Ent Bohemoslov 58(3):221-227 REF
20 Jul 1961 420 C33
Insect ecology, Insect morphology, Larvae, Rhadinoceraea reitteri. Czech summary.

3802-69
STUDIES ON THE LIFE HISTORY AND BIOLOGICAL CONTROL OF THE SPITTLEBUG, CLASTOPTERA UNDULATA UHLER (CERCOPIDAE: HEMIPTERA).
F D Bennett I W Hughes
Entomophaga 8(1):49-66 REF
1963 421 EN835
Biological control (insects), Carabunia myersi, Cercopidae, Clastoptera undulata, Encyrtidae, Insect biology, Insect morphology, Parasites. French summary.

3803-69
PROTECTION OF BEES THROUGH THE USE OF INSECTICIDES, HARMLESS OR ONLY SLIGHTLY DANGEROUS TO BEES. (GE)
F Beran
Pflanzenarzt 20(4):38-39
01 Apr 1967 464.9 P482
Acaricides, Arsenic compounds, Bees, Beneficial insects, Carbamates, Carbaryl, Chlorinated hydrocarbons, Dinitrocresol, Insecticide resistant insects. 17 insecticides are listed and their degree of danger to bees is indicated.

3804-69
THE EFFECT OF ESSENTIAL AMINO ACID DEFICIENCY ON THE SEX-SPECIFIC ACCUMULATION OF A BLOOD PROTEIN IN FEMALE HOUSE-FLIES (MUSCA DOMESTICA L.).
R P Bodnaryk P E Morrison
Compar Biochem Physiol 27(1):365-369
Oct 1968 444.8 C73
Amino acids, Animal nutrition, Blood proteins, Hormones, Insect diets, Musca domestica, Reproduction.

3805-69
JUVENILE HORMONE: ACTIVITY OF AROMATIC TERPENOID ETHERS.
W S Bowers
Science 164(3877):323-325
18 Apr 1969 470 SCI2
Biochemistry, Ethers, Hormones, Insect physiology, Oncopeltus fasciatus, Tenebrio molitor, Terpenoids.

3806-69
STRUCTURE AND DEVELOPMENT OF THE IMAGINAL WING DISCS OF LARVA IN A HOLOMETABOLOUS INSECT, BOMBYX MORI (LEPIDOPTERA, BOMBYCIDAE). (FR)
P Cals
Acta Ent Bohemoslov 65(4):269-271
1968 420 C33
Bombyx mori, Insect morphology, Larvae, Metamorphosis, Wings (insects). English and Czech summaries.

3807-69
VITAMIN A DEFICIENCY: EFFECT ON RETINAL STRUCTURE OF THE MOTH, MANDUCA SEXTA.
S D Carlson H R Steeves J S Vandeberg W E Robbins
Science 158(3798):268-270 REF
13 Oct 1967 470 SCI2
Deficiency diseases, Insect histology, Manduca sexta, Retina, Tobacco, Vitamin a.

3808-69
ON THE OCCURRENCE AND SEASONAL DYNAMIC OF DIPTERA, TACHINIDAE IN THE RESERVATION AREA OF JASOV. (CZ)
J Cepelak
Biologia (bratislava) 24(2):158-165
1969 442.8 B5265
Statistical analysis, Tachinidae, Zoogeography. Russian and German abstracts.

3809-69
PHOTOPERIODISM IN THE HONEY BEE, APIS MELLIFERA L. (HYMENOPTERA, APIDAE).
A V Cherednikov
Entomol Rev 46(1,JAN-MAR):33-37
1967 421 R322AE
Apidae, Apis mellifera, Insect behavior, Insect ecology, Photoperiodism.

3810-69
USE OF FRESHWATER SPONGE IN CASE CONSTRUCTION OF LIMNEPHILUS SPECIES (TRICHOPTERA: LIMNEPHILIDAE).
M D Clady
Entomol Soc Wash Proc 71(1):98
Mar 1969 420 W27
Insect traps, Limnephilidae, Sponges, Trichoptera.

3811-69
THE EFFECT OF VARIOUS BIOGENIC AMINES ON THE ACTIVITY OF THE FOREGUT OF THE COCKROACH, BLABERUS GIGANTEUS.
B J Cook J Eraker G R Anderson
J Insect Physiol 15(3):445-455 REF
Mar 1969 421 J825
Amines, Blaberus giganteus, Gastrointestinal system, Insect genetics, Insect physiology, Tissue therapy.

3812-69
INFECTION EXPERIMENTS WITH A FUNGUS (COELOMOMYCES) WHICH KILLS MALARIAL MOSQUITOES. (ABSTRACT).
J N Couch C J Umphlett M O P Iyengar
Science 158(3800):526
27 Oct 1967 470 SC12
Anopheles quadrimaculatus, Biological control (insects), Coelomomyces, Fungi, Greenhouse culture. Abstract of paper presented National Academy of Sciences autumn meeting, Ann Arbor, Mich., 23-25 Oct.,1967.

3813-69
ON THE DETERMINATION OF AGE STRUCTURE OF THE LARVAE OF TENDIPEDIDAE (DIPTERA).
B Czeczuga E Bobiatynska-Ksok E Niedzwiecki
Zool Pol 18(3):317-328 REF
1968 410 Z712
Aquatic insects, Insect morphology, Insect physiology, Larvae, Tendipedidae. Polish and Russian summaries.

3814-69
TEMPERATURE AND CIRCADIAN CONTROL OF CUTICLE GROWTH ON THE BUG, ONCOPELTUS FASCIATUS.
H Dingle R L Caldwell J B Haskell
J Insect Physiol 15(3):373-378 REF
Mar 1969 421 J825
Belostomatidae, Cuticle, Diurnal rhythm, Insect physiology, Oncopeltus fasciatus, Temperature.

3815-69
FACTORS AFFECTING THE OXIDATION OF GLYCEROL-1-PHOSPHATE BY INSECT FLIGHT-MUSCLE MITOCHONDRIA.
J F Donnellan R B Beechey
J Insect Physiol 15(3):367-372
Mar 1969 421 J825
Calcium, Glycerol, Insect flight, Insect physiology, Mitochondria, Muscles, Oxidation, Phosphates, Strontium.

3816-69
OCCURRENCE OF THE SPECIES TRICHOCLADIUS TRIFASCIA EDWARDS (CHIRONOMIDAE, DIPTERA) IN THE DANUBE. (GE)
E Ertlova
Biologia (bratislava) 24(2):155-157
1969 442.8 B5265
Aquatic insects, Insect ecology, Trichocladius, Zoogeography. Russian and Czech abstracts.

3817-69
STRUCTURE AND FUNCTION OF THE GIANT FIBRE SYSTEM IN THE COCKROACH, PERIPLANETA AMERICANA.
R D Farley N S Milburn
J Insect Physiol 15(3):457-476 REF
Mar 1969 421 J825
Insect anatomy, Insect physiology, Nerves, Nervous system, Periplaneta americana.

3818-69
STUDIES OF NEOTROPICAL CADDIS FLIES. VIII: THE IMMATURE STAGES OF BARYPENTHUS CLAUDENS (TRICHOPTERA: ODONTOCERIDAE).
O S Flint
Entomol Soc Wash Proc 71(1):24-28
Mar 1969 420 W27
Barypenthus claudens, Insect identification, Neotropical Region, Odontoceridae, Trichoptera.

3819-69
NATURAL ENEMIES OF LASPEYRESIA POMONELLA L. (LEPIDOPTERA, TORTRICIDAE) AND THE EFFECT OF CHEMICAL TREATMENT ON THEIR USEFUL ACTIVITY.
N K Gaprindashvili T N Novitskaya
Entomol Rev 46(1,JAN-MAR):39-42 REF
1967 421 R322AE
Biological control (insects), Carpocapsa pomonella, Chemicals, Fruit, Insect behavior, Insect pests, Olethreutidae, Predaceous insects.

3820-69
NEW DATA ON ACCUMULATION OF S35 AND RU106 BY DRAGONFLY NYMPHS (ODONATA).
A B Getsova G A Volkova
Entomol Rev 46(1,JAN-MAR):38
1967 421 R322AE
Aeshna grandis, Aquatic insects, Insect biochemistry, Insect physiology, Odonata, Radioactive tracers, Ruthenium isotopes, Sulfur isotopes.

3821-69
CHANGES IN SOLUBLE PROTEINS DURING FOOT-PAD DEVELOPMENT IN SARCOPHAGA BULLATA.
E Goldberg J Whitten L I Gilbert
J Insect Physiol 15(3):409-420 REF
Mar 1969 421 J825
Cells, Chromosomes, Extremities, Insect morphology, Insect physiology, Proteins, Pupae, Sarcophaga bullata.

3822-69
INVESTIGATIONS ON THE DEVELOPMENT OF AEGYPTIANELLA PULLORUM CARPANO, 1928, IN THE SOFT TICK ARGAS (PERSICARGAS) PERSICUS.(OKEN, 1818) BY MEANS OF FLUORESCENT ANTIBODIES. (GE
R Gothe H Becht
Z Parasitenk 31(4):315-325
10 Mar 1969 442.8 Z33F
Aegyptianella, Argas persicus, Development, Fluorescent antibody technic, Host relationships, Insect diseases. English abstract.

3823-69
EUROPEAN SPECIES OF THE GENUS MYOSPILA ROND. (DIPT., MUSCIDAE). (GE)
F Gregor
Acta Ent Bohemoslov 65(4):299-318 MAP REF
1968 420 C33
Insect ecology, Insect identification, Muscidae, Myospila, Zoogeography. English and Czech summaries.

3824-69
REMARKS ON FLUCTUATIONS IN DENSITY OF CARABIDAE POPULATIONS.
L Grum
Ekol Pol Ser A (SER A)15(14):11P REF
1967 512 W263
Carabidae, Insect populations, Zoogeography. Polish summary.

3825-69
DESCRIPTION OF THE LARVA OF PARENA (PARENA) PERFORATA (BATES), WITH SOME NOTES ON ITS LIFE HISTORY (CARABIDAE). (JA
A Habu K Sadanaga
Kontyu 35(4):391-397
Nov 1967 421 K833
Carabidae, Insect biology, Insect identification, Larvae, Parena perforata, Predaceous insects. English summary.

3826-69
STUDIES ON THE INCREMENT OF THE EFFICACY OF INSECTICIDES (IX). ON THE SYNERGISTIC ACTION OF PYRETHROSIN WITH PYRETHROID. (JA)
A Hayashi H Aoki T Saito
Botyu-kagaku 33(4):130-134
Nov 1968 421 B65
Chemical control (insects), Insecticides, Musca domestica, Pyrethrum, Synergism. English summary.

3827-69
EARLY MORPHOGENESIS OF TUMOURS INDUCED BY NOSEMA ACRIDOPHAGUS IN MELANOPLUS SANGUINIPES.
J E Henry
J Insect Physiol 15(3):391-394 REF
Mar 1969 421 J825
Insect physiology, Melanoplus sanguinipes, Morphology, Neoplasms, Nosema acridophagus.

3828-69
THE FORAGE PLANTS OF RHAGADES PRUNI SCHIFF. (GE)
P Hunziker
Entomol Gesell Basel 14(3,MAY-JUN):75
1964 QL461.E58
Blackberries, Blueberries, Caterpillars, Forage plants, Insect behavior, Insect nutrition, Rosa.

3829-69
FAUNAL AND ECOLOGICAL STUDY ON THE FAMILIES NYCTERIBIIDAE AND STREBLIDAE (DIPT., PUPIPARA) OF THE NANGAHAR PROVINCE (EASTERN AFGHANISTAN).
K Hurka D Povolny
Acta Ent Bohemoslov 65(4):285-298 MAP REF
1968 420 C33
Diptera, Insect ecology, Nycteribiidae, Streblidae, Zoogeography. Czech summary.

3830-69
STUDIES ON THE ADULT DIAPAUSE OF THE BROAD BEAN WEEVIL, BRUCHUS RUFIMANUS. (JA)
N Ikeno
Botyu-kagaku 33(4):135-138
Nov 1968 421 B65
Bruchus rufimanus, Food plants, Insect adaptation, Insect morphology. English summary.

3831-69
PHYSIOLOGICAL AND ULTRASTRUCTURAL STUDY OF THE CORPORA ALLATA OF LOCUSTA MIGRATORIA L. (ORTHOPTERA) IN THE GREGARIOUS PHASE. (FR)
L Joly P Joly A Porte A Girardie
Arch Zool Exp Gen 109(4):703-727 REF
30 Dec 1968 410 AR24
Corpora allata, Electron microscopy, Insect physiology, Locusta migratoria, Ultrastructure. English abstract.

3832-69
ON OCULAR REGENERATION IN LITHOBIUS FORFICATUS L. (MYRIOPODA CHILOPODA). (FR)
R Joly C Herbaut
Arch Zool Exp Gen 109(4):591-612 REF
30 Dec 1968 410 AR24
Chilopoda, Eyes, Insect physiology, Nerves, Regeneration. English abstract.

3833-69
PARATEPHRITIS TRANSITORIA RHOD. (DIPTERA, TEPHRITIDAE), A FLY THAT FORMS GALLS ON TASSEL FLOWERS IN THE MARITIME TERRITORY.
M N Kandybina O V Kovalev V A Rikhter
Entomol Rev 46(1,JAN-MAR):63-65 REF
1967 421 R322AE
Flowers, Gall-making insects, Insect biology, Insect ecology, Paratephritis transitoria, Plant galls, Tephritidae.

3834-69
SOME BIOLOGICAL NOTES ON BOMBUS IGNITUS SMITH WITH SPECIAL REFERENCE TO THE NEST STRUCTURE (HYM. APIDAE). (JA)
E Katayama
Kontyu 35(4):343-352
Nov 1967 421 K833
Apidae, Bombus ignitus, Insect behavior, Nesting habits, Social insects. English summary.

3835-69
STUDY ON ATTRACTANT OF THE RICE STEM BORER, CHILO SUPPRESSALIS WALKER. (JA)
T Kawano T Saito K Munakata
Botyu-kagaku 33(4):122-130
Nov 1968 421 B65
Attractants, Chemicals, Chilo suppressalis, Crambidae, Food, Food plants, Methylacetophenone, 4'-, Olfactometers, Rice. English summary.

30 compounds related to p-methylacetophenone were tested and many rice varieties

3836-69
EFFECTS OF LONG-TERM CARDIATECTOMY-ALLATECTOMY ON MITOCHONDRIAL RESPIRATION IN THE COCKROACH, BLABERUS DISCOIDALIS.
L L Keeley S Friedman
J Insect Physiol 15(3):509-518 REF
Mar 1969 421 J825
Blaberus discoidalis, Corpora allata, Corpora cardiaca, Insect physiology, Insect respiration, Mitochondria.

3837-69
INSECT METABOLISM OF PHOTOALDRIN AND PHOTODIELDRIN.
M A Q Khan J D Rosen D J Sutherland
Science 164(3877):318-319
18 Apr 1969 470 SCI2
Aldrin, Culicidae, Dieldrin, Diptera, Insect metabolism, Insect physiology, Light, Toxicology.

3838-69
REVIEW OF THE PARASITIC DIPTERA OF THE GENUS ERIOTHRIX MEIGEN (DIPTERA, TACHINIDAE) IN THE USSR.
N G Kolomiyets
Entomol Rev 46(1,JAN-MAR):142-151
1967 421 R322AE
Diptera, Eriothrix, Insect behavior, Parasitic insects, Tachinidae, Zoogeography.

3839-69
SIGNIFICANCE OF THE PARASITE APHIDIUS ERVI HALIDAY (BRACONIDAE, HYMENOPTERA IN CONTROLLING THE DENSITY OF POPULATION OF ACYRTHOSIPHON PISUM HARRIS. (CZ)
J Kralovic V Vallo
Biologia (bratislava) 24(2):148-154
1969 442.8 B5265
Acyrthosiphon pisum, Aphidius, Life cycle. Russian abstract.

3840-69
LEAF BEETLE LARVAE OF THE SUBFAMILY EUMOLPINAE AND OF SYNETA BETULAE F. (COLEOPTERA, CHRYSOMELIDAE).
G F Kurcheva
Entomol Rev 46(1,JAN-MAR):132-137 REF
1967 421 R322AE
Chrysomelidae, Eumolpinae, Insect biology, Larvae, Leaves, Syneta betulae.

3841-69
STUDIES ON SEX PHEROMONES OF PYRALIDIDAE. CHANGES IN THE QUALITY OF THE SEX PHEROMONE IN THE FEMALE ALMOND MOTH, CADRA CAUTELLA WALKER (PHYCITINAE). (JA)
Y Kuwahara C Kitamura F Takahashi H Fukami
Botyu-kagaku 33(4):158-162
Nov 1968 421 B65
Biological assay, Cadra cautella, Insect physiology, Pheromones, Phycitidae, Pyralidae, Sex attractants. English summary.

3842-69
CHANGES IN GONADS AND PRIMARY SEXUAL CHARACTERS IN TRIPLOID INTERSEXES OF DROSOPHILA MELANOGASTER (DIPTERA) EXPOSED TO THE EFFECT OF DIFFERENT TEMPERATURES. (FR)
G Lauge
Acta Ent Bohemoslov 65(4):263-268 REF
1968 420 C33
Drosophila melanogaster, Gonads, Insect physiology, Reproductive organs, Temperature. English and Czech summaries.

3843-69
SIZE INDEPENDENT SECRETION BY THE CORPUS ALLATUM OF CALLIPHORA ERYTHROCEPHALA.
A O Lea E Thomsen
J Insect Physiol 15(3):477-482 REF
Mar 1969 421 J825
Brain, Calliphora vicina, Corpora allata, Insect nutrition, Insect physiology, Meat, Secretion, Size, Sugar.

3844-69
PARASITES OF LADYBIRDS (COLEOPTERA, COCCINELLIDAE) IN LENINGRAD PROVINCE.
Y Y Lipa V P Sem'yanov
Entomol Rev 46(1,JAN-MAR):43-45 REF
1967 421 R322AE
Coccinellidae, Fungi, Gregarinida, Hymenoptera, Insect behavior, Microsporidia, Parasitic insects, Parasitism.

3845-69
THE INSECT FAUNA IN THE BURROWS OF THE LONG-CLAWED MOLE-VOLE, A CAUCASIAN ENDEMIC SPECIES.
Y A Lyayster
Entomol Rev 46(1,JAN-MAR):111-120 REF
1967 421 R322AE
Coleoptera, Diptera, Habitats, Hymenoptera, Insect ecology, Rodents, Siphonaptera, Zoogeography.

3846-69
A MITE OF THE GENUS TYDEUS (ACARIFORMES, TYDEIDAE) THAT IS A GRAPE PEST IN MOLDAVIA.
N I Mal'chenkova
Entomol Rev 46(1,JAN-MAR):66-68
1967 421 R322AE
Acarina, Eupodidae, Grapes, Insect behavior, Insect pests, Mites.

3847-69
A DESCRIPTION OF THE DEVELOPMENTAL STAGES OF CTENOPHORA GUTTATA WIED. AND A REVIEW OF THE CZECHOSLOVAK SPECIES OF THE GENUS CTENOPHORA (DIPT., TIPULIDAE). (GE)
J Martinovsky
Acta Ent Bohemoslov 65(4):319-324 REF
1968 420 C33
Ctenophora, Ctenophora guttata, Insect identification, Insect morphology, Larvae, Pupae, Tipulidae. English and Czech summaries.

The 5 species of Ctenophora that have been identified are C. pectinocornis, C. guttata, C. flovealata, C. elegans, and C. festiva.

3848-69
THE USE OF ATTRACTANTS IN PEST CONTROL. 2. SEX ATTRACTANTS. (GE
K Mayer
Gesunde Pflanzen 20(9):179-180,182,184-189 REF
Sep 1968 464.8 G33
Biological control (insects), Insect physiology, Light traps, Pest control, Pheromones, Sex attractants. Sex attractants for many insects are discussed.

3849-69
FUNDAMENTAL PROPERTIES OF INTENSITY, FORM, AND MOTION PERCEPTION IN THE VISUAL NERVOUS SYSTEMS OF CALLIPHORA, PHAENICIA AND MUSCA DOMESTICA.
G D McCann J C Dill
J Gen Physiol 53(4):385-413 MAP REF
Apr 1969 447.8 J822
Calliphora, Insect physiology, Musca domestica, Nervous system, Phaenicia, Vision.

3850-69
CONTROLLING INSECTS AND OTHER PESTS WITH PHOSPHONOTHIOATES. PATENT 3,428,655.
T M Melton H A Kaufman
Us Patent Office Offic Gaz 859(3):924
18 Feb 1969 156.65 OF2
Chemical control (insects), Chemistry, Insect pests, Insecticides, Organic compounds, Patents, Phosphonothioates, Phosphorus, Sulfur.

3851-69
NEW DATA ON THE BIOLOGY OF CADDISFLIES (TRICHOPTERA, LIMNEPHILIDAE, APATANIINAE) OF LAKE BAICAL. I. LIFE SPAN AND MASS FLIGHT OF ADULTS.
T V Menshutkina
Entomol Rev 46(1,JAN-MAR):51-58 REF
1967 421 R322AE
Apatania, Insect biology, Insect flight, Insect physiology, Trichoptera, Zoogeography.

3852-69
THE BEHAVIOR OF ADULTS OF ABUNDANT SPECIES OF CADDISFLIES (TRICHOPTERA) IN THE TRIBUTARIES OF LAKE SEVAN.
A M Meshkova
Entomol Rev 46(1,JAN-MAR):59-60
1967 421 R322AE
Insect behavior, Insect biology, Trichoptera, Zoogeography.

Families covered: Rhyacophilidae, Philopotamidae, Psychomyidae, Polycentropidae, Hydropsychidae, Leptoceridae, Limnophilidae, and Sericostomatidae.

3853-69
COMMUNITY STUDIES ON HYMENOPTERA FOUND ON BRASSICA NAPUS L. PART III. BRACONIDAE AND APHIDIIDAE. (POL)
B Miczulski
Pol Pismo Entomol 37(1):167-191 REF
15 Aug 1967 421 P76
Aphididae, Braconidae, Host indexing (plants), Hymenoptera, Insect pests, Insect populations, Parasitic insects, Rape. English summary.

3854-69
FOOD SOURCES OF SOME MOSQUITO SPECIES IN THE NATURAL FOCUS OF TAHYNA VIRUS IN SOUTHERN MORAVIA.
J Minar
Folia Parasitol 16(1):81-92 REF
1969 436.8 C33
Aedes, Anopheles, Culicidae, Food habits, Insect behavior, Insect vectors, Tahyna virus, Virus diseases (animals).

3855-69
A CONTRIBUTION TO THE BIONOMY OF CULEX MODESTUS FIC. (DIPTERA, CULICIDAE) IN SOUTHERN MORAVIA.
J Minar
Folia Parasitol 16(1):93-96
1969 436.8 C33
Culex, Food habits, Insect ecology, Zoogeography.

3856-69
LYSOZYME IN THE HUMORAL DEFENSE MECHANISM OF SPECIFICALLY AND NONSPECIFICALLY IMMUNIZED INSECT LARVAE. (GE)
W Mohrig B Messner
Biol Rundschau 5(4):181-183 REF
1967 442.8 B5272
Bacteria, Bactericides, Immunity, Insect biology, Insect diseases, Insect protective devices, Larvae, Muramidase.

3857-69
THE TOXIC ACTION OF A MIXTURE OF GAMMA-BHC AND EDB TO CRYPHALUS FULVUS NIIJIMA. STUDIES ON THE CONTROL OF FOREST PESTS. V. (JA)
S Nagasawa S Asano S Fushimi
Botyu-kagaku 33(4):153-158
Nov 1968 421 B65
Chemical control (insects), Chlorinated hydrocarbons, Cryphalus fulvus, Ethylene dibromide, Forest insects, Insecticides, Lindane, Scolytidae, Toxins. English summary.

3858-69
THE INFLUENCE OF PHOTOPERIOD AND TEMPERATURE ON THE INDUCTION OF DIAPAUSE IN MULBERRY PYRALID, GLYPHODES PYLOALIS WALKER. (JA)
S Nakamura

Sansi-kenkyu (65):149-156
Oct 1967 425.9 J273S
Insect morphology, Photoperiodism, Pyralidae, Temperature. English summary.

3859-69
TWO TYPES OF CARBOXYESTERASE DEGRADING MALATHION IN RESISTANT HOUSEFLIES AND THEIR INHIBITION BY SYNERGISTS.
H Ohkawa M Eto Y Oshima F Tanaka K Umeda
Botyu-kagaku 33(4):139-145 REF
Nov 1968 421 B65
Carboxylesterase, Degradation, Electrophoresis, Enzymes, Insecticide resistant insects, Malathion, Musca domestica, Organophosphorus compounds, Phosphoric acid esters, Synergists. Japanese summary.

3860-69
COMPARATIVE STUDIES OF THE DEVELOPMENT OF PLASMODIUM CYNOMOLGI BASTIANELLII IN ANOPHELES STEPHENSI AND A. ALBIMANUS. (GE)
M S Omar
Z Tropenmed Parasitol 19(4):370-389 REF
Dec 1968 448.8 Z37
Anopheles albimanus, Anopheles stephensi, Insect histology, Insect physiology, Parasitism, Plasmodium. English summary.

3861-69
THE EFFECT OF DIET ON THE PHYSIOLOGY OF THE BROWN-TAIL MOTH, EUPROCTIS CHRYSORRHOEA L. (LEPIDOPTERA, LIPARIDAE).
G A Pantyukhov
Entomol Rev 46(1,JAN-MAR):21-26 REF
1967 421 R322AE
Diet, Food plants, Insect nutrition, Insect physiology, Lymantriidae, Nygmia phaeorrhoea.

3862-69
STUDY OF THE MORPHOGENESIS OF THE MAXILLARY STYLET OF RHODNIUS PROLIXUS BY TRANSPLANTATIONS OF INCOMPLETE STYLOGENETIC ORGANS. (FR)
J M Pinet
Arch Zool Exp Gen 109(4):613-641
30 Dec 1968 410 AR24
Insect morphology, Mouth parts, Rhodnius prolixus, Tissue transplants. English abstract.

3863-69
SPECIFICITY OF POPULATION-AGGREGATING PHEROMONES IN DENDROCTONUS.
G B Pitman J P Vite G W Kinzer A F Fentiman
J Insect Physiol 15(3):363-366 REF
Mar 1969 421 J825
Chemoreceptors, Dendroctonus, Insect physiology, Insect populations, Olfactory responses, Pheromones.

3864-69
INNERVATION OF THE GUT OF THE MIGRATORY LOCUST, LOCUSTA MIGRATORIA L. (ORTHOPTERA, ACRIDIDAE).
S I Plotnikova
Entomol Rev 46(1,JAN-MAR):69-71 REF
1967 421 R322AE
Acrididae, Histology, Insect physiology, Intestines, Locusta migratoria, Nervous system.

3865-69
RECORD OF THE MOTH EAR MITE, DICROCHELES PHALAENODECTES, IN OHIO (ACARINA: MESOSTIGMATA).
V Prasad
Entomol Soc Wash Proc 71(1):7-9
Mar 1969 420 W27
Dicrocheles phalaenodectes, Insect anatomy, Insect identification, Mesostigmata, Pseudaletia unipuncta.

3866-69
EFFECTS OF APHOLATE ON THE BIONOMICS OF MUSCA DOMESTICA NEBULO FABR.
O P Raghuwanshi I Ahmad N H Khan
Botyu-kagaku 33(4):119-122
Nov 1968 421 B65
Apholate, Biological control (insects), Chemical control (insects), Chemosterilants, Insect ecology, Musca domestica. Japanese summary.

3867-69
CHANGES IN INSECTICIDE SENSITIVITY IN THE BEAN WEEVIL ACANTHOSCELIDES OBTECTUS SAY, BROUGHT ABOUT BY INDUCED PIGMENT FORMATION. (GE)
W Reichmuth
Gesunde Pflanzen 19(10):208-212
Oct 1967 464.8 G33
Acanthoscelides obtectus, Beans, Chlorinated hydrocarbons, Copper sulfate, DDT, Fertilizers, Insecticide resistant insects, Magnesium sulfate, Molybdenum, Pigments (insect), Potassium, Zinc sulfate.

3868-69
IS IT POSSIBLE TO PREDICT APPLE MOTH INFESTATIONS . (GE)
K Russ
Pflanzenarzt 20(4):35-36
01 Apr 1967 464.9 P482
Apples, Carpocapsa pomonella, Insect outbreak forecasting, Tables (data).

3869-69
DISTRIBUTION OF SEED BEETLES (COLEOPTERA, BRUCHIDAE) IN THE FOREST-STEPPE ZONE OF THE EASTERN UKRAINE.
A P Rybalko
Entomol Rev 46(1,JAN-MAR):92-96
1967 421 R322AE
Bruchidae, Forest insects, Insect ecology, Zoogeography.

3870-69
SALT AND WATER TRANSPORT BY THE IN VITRO COCKROACH MIDGUT.
J R Sauer R Schlenz-true R R Mills
J Insect Physiol 15(3):483-493 REF
Mar 1969 421 J825
Biological transport, Gastrointestinal system, Insect physiology, Periplaneta americana, Sodium chloride, Water.

3871-69
CHANGES IN THE COMPOSITION OF LIPIDS AND FATTY ACIDS IN ADULT CULEX TARSALIS AND ANOPHELES FREEBORNI DURING THE OVERWINTERING PERIOD.
C H Schaefer R K Washino
J Insect Physiol 15(3):395-402 REF
Mar 1969 421 J825
Anopheles freeborni, Culex tarsalis, Fatty acids, Hibernation, Insect biochemistry, Insect physiology, Lipids.

3872-69
CONTROL SYSTEMS IN INSECT DEVELOPMENT. (ABSTRACT).
H A Schneiderman E Gateff
Science 158(3800):534-535
27 Oct 1967 470 SCI2
Cells, Insect genetics, Insect histology, Insect morphology, Synthesis. Abstract of paper presented at National Academy of Sciences autumn meeting, Ann Arbor, Mich., 23-25 Oct., 1967.

3873-69
BEMBECIA PECTINATA STGR. AND ITS FIRST STAGES. (LEPIDOPTERA, SESIIDAE). (FR)
R Schwarz V Tolman
Acta Ent Bohemoslov 58(3):284-287
20 Jul 1961 420 C33
Bembecia pectinata, Insect morphology, Lepidoptera, Sesiidae. Czech summary.

3874-69
BITING MIDGES OF THE GENUS CULICOIDES MG. (DIPTERA, CERATOPOGONIDAE) FROM THE VALLEY OF THE MIDDLE REACHES OF THE DESNA.
A K Shevchenko
Entomol Rev 46(1,JAN-MAR):97-106 REF
1967 421 R322AE
Ceratopogonidae, Culicoides, Insect behavior.

3875-69
EFFECT OF GAMMA-IRRADIATION OF LATE EMBRYO ON THE GROWTH OF SILKGLANDS AND ON SILK PRODUCTION IN THE SILKWORM, BOMBYX MORI. (JA)
H Shigematsu H Takeshita
J Sericult Sci Jap 37(2):88-94 REF
Apr 1968 425.9 SE6
Bombyx mori, Cobalt isotopes, Dosage, Embryos, Gamma rays, Insect physiology, Irradiation. English summary.

3876-69
NOTES ON THE PARASITES OF THE ROOT APHIDS (HYMENOPTERA, APHIDIIDAE).
P Stary
Acta Ent Bohemoslov 58(3):228-238 REF
20 Jul 1961 420 C33
Aphididae, Braconidae, Homoptera, Hymenoptera, Insect identification, Insect taxonomy, Parasitic insects, Roots. Czech summary.

3877-69
THE HYPERGLYCAEMIC ACTIVITY OF THE CORPUS ALLATUM IN AN INSECT.
J E Steele
J Insect Physiol 15(3):421-423
Mar 1969 421 J825
Brain, Chromatography, Corpora allata, Hyperglycemia, Insect physiology, Periplaneta americana.

3878-69
PHYLOGENETIC RELATIONSHIPS WITHIN THE RHOPALOCERA ON THE BASIS OF THE FUNCTIONAL MORPHOLOGY OF THE GENITAL APPARATUS.
A A Stekol'nikov
Entomol Rev 46(1,JAN-MAR):1-11 REF
1967 421 R322AE
Insect morphology, Insect physiology, Reproductive organs, Rhopalocera.

3879-69
MEXICAN FRUIT CONTAINMENT.
Sunkist Pest Contr Circ (372):1
Nov 1968 423.9 C12E
Chemical control (insects), Insect traps, Irradiation, Quarantine, Spraying, Sterility, Tephritidae.

3880-69
STUDIES ON SEX PHEROMONES OF PYRALIDIDAE. II. MASS REARING OF VIRGIN FEMALES OF THE ALMOND MOTH, CADRA CAUTELLA WALKER (PHYCITINAE). (JA)
F Takahashi C Kitamura Y Kuwahara H Fukami
Botyu-kagaku 33(4):163-168
Nov 1968 421 B65
Cadra cautella, Insect rearing, Pheromones, Phycitidae, Pyralidae, Sex attractants, Temperature. English summary

3881-69
ORIGIN OF OXALIC ACID IN CA OXALATE CRYSTALS IN THE MALPIGHIAN TUBES OF THE TENT CATERPILLAR, MALACOSOMA NEUSTRIA TESTACEA.
S Y Takahashi G Suzuki E Ohnishi
J Insect Physiol 15(3):403-407
Mar 1969 421 J825
Calcium oxalate, Insect biochemistry, Larvae, Lasiocampidae, Malacosoma neustria, Malpighian tubes, Oxalic acid, Radioactivity.

3882-69
EFFECT OF REARING CONDITION ON GROWTH AND DEVELOPMENT OF THE SILKWORM, BOMBYX MORI L., ON ARTIFICIAL DIET. II. (JA)
K Takamiya
Sansi-kenkyu (65):66-73
Oct 1967 425.9 J273S
Bombyx mori, Insect morphology, Insect physiology, Insect rearing, Temperature. English summary.

3883-69
REPORT OF THE ANTI-LOCUST RESEARCH CENTRE.
T H C Taylor D T Haskell
Her Majesty's Stationery Office, London, England (PT 1/2):50P REF
1965 SB945.L7A53
Acrididae, Agricultural research, Reports.

3884-69
ON THE EFFECT OF COMBINED ACTION OF PATHOGENIC MICROORGANISMS AND INSECTICIDES UPON INSECTS. (RUS)
N A Telenga
Zhur Obshch Biol 29(5,SEP/OCT):501-514 REF
1968 442.8 Z6
Fertility, Insect pests, Insect populations, Insecticides, Integrated control (insects), Microorganisms, Mortality. English summary.

3885-69
LARVAL FEEDING HABITS OF CERTAIN CHLOROPIDAE (DIPTERA).
K Valley T Wearsch B A Foote
Entomol Soc Wash Proc 71(1):29-34
Mar 1969 420 W27
Chloropidae, Diptera, Feeding, Fungi, Insect behavior, Insect nutrition, Larvae.

3886-69
THE EFFECT OF THE AMOUNT OF BLOOD TAKEN AND ADDITIONAL CARBOHYDRATE NUTRITION ON OOGENESIS IN FEMALES OF BLOOD-SUCKING MOSQUITOES OF THE GENUS AEDES (DIPTERA, CULICIDAE) OF VARIOUS WEIGHTS AND AGES.
N V Volozina
Entomol Rev 46(1,JAN-MAR):27-32 REF
1967 421 R322AE
Aedes, Aging, Blood, Carbohydrates, Culicidae, Insect nutrition.

3887-69
AN ELECTRON MICROSCOPE STUDY OF THORACIC MITOCHONDRIAC MEMBRANES IN DEVELOPING ADULTS OF THE BLOWFLY LUCILIA CUPRINA.
A C Walker L M Birt
J Insect Physiol 15(3):519-527 REF
Mar 1969 421 J825
Electron microscopy, Insect morphology, Insect physiology, Lucilia cuprina, Mitochondria, Thorax.

3888-69
MATING AND OVIPOSITION BEHAVIOR OF THE COFFEE LEAF MINER, LEUCOPTERA COFFEELLA (LEPIDOPTERA: LYONETIIDAE).
D W Walker V Quintana
Entomol Soc Wash Proc 71(1):88-90
Mar 1969 420 W27
Breeding, Coffee, Insect behavior, Leucoptera coffeella, Lyonetiidae, Oviposition, Reproduction.

3889-69
HONEYBEES: DO THEY USE DIRECTION AND DISTANCE INFORMATION PROVIDED BY THEIR DANCERS .
A M Wenner D L Johnson
Science 158(3804):1072-1077 REF
24 Nov 1967 470 SCI2
Apis mellifera, Insect behavior, Insect physiology, Insect protective devices, Social insects.

3890-69
PHAGOCYTIC HAEMOCYTES IN UNFIXED GALLERIA MELLONELLA LARVAE.
R A Werner J C Jones
J Insect Physiol 15(3):425-437 REF
Mar 1969 421 J825
Blood cells, Galleria mellonella, Insect physiology, Larvae, Phagocytes.

3891-69
PROBLEM INSECTS IN 1967 - HOW TO CONTROL THEM IN 1968.
P H Wooley
Mich State Hort Soc Annu Rep 96-100
1968 81 M58
Aphididae, Chemical control (insects), Cicadellidae, Coleoptera, Insect pests, Insecticide application, Insecticides, Moths, Noctuidae, Panonychus ulmi.

3892-69
INCORPORATION OF PALMITATE-1-C14 INTO LIPIDS OF THE BLOWFLY DURING FLIGHT.
W J Yurkiewicz C F Mathur
J Insect Physiol 15(3):439-444 REF
Mar 1969 421 J825
Carbohydrates, Carbon isotopes, Insect biochemistry, Insect flight, Insect physiology, Lipids, Palmitic acid compounds, Phaenicia sericata, Radioactive tracers.

GENETICS

3893-69
CHROMOSOMES OF SYRPHIDAE. IV. KARYOTYPES OF FOURTEEN SPECIES IN THE TRIBE CHRYSOTOXINI.
J W Boyes J M van Brink R D Mehta
Chromosoma 24(2):233-242
04 Jun 1968 442.8 C46
Chromosomes, Insect genetics, Syrphidae.

3894-69
MEIOSIS IN THE MALE OF PUTO ALBICANS (COCCOIDEA-HOMOPTERA).
S W Brown C Cleveland
Chromosoma 24(2):210-232 REF
04 Jun 1968 442.8 C46
Cytogenetics, Insect evolution, Insect genetics, Meiosis, Puto.

3895-69
LIPIDS OF DROSOPHILA: A NEWLY DETECTED LIPID IN THE MALE.
F M Butterworth
Science 163(3873):1356-1357
21 Mar 1969 470 SCI2
Chromatography, Drosophila melanogaster, Insect biology, Insect genetics, Lipids.

3896-69
THE NON-RANDOM CHROMOSOME SEGREGATION IN SPERMATOCYTES OF GRYLLOTALPA HEXADACTYLA. A MICROMANIPULATION ANALYSIS.
R Camenzind R B Nicklas
Chromosoma 24(3):324-335 REF
13 Aug 1968 442.8 C46
Gryllotalpa hexadactyla, Insect genetics, Meiosis, Spermatocytes.

3897-69
THE INFLUENCE OF THE GENOTYPE ON THE FREQUENCY OF RADIATION-INDUCED ANEUPLOIDY IN THE OOGENESIS OF DROSOPHILA MELANOGASTER. (RUS)
N W Glotoff
Genetika 4(4):60-64
1968 QH431.A1G4
Drosophila melanogaster, Insect genetics, Oogenesis, Polyploidy, Radiation. English summary.

3898-69
HEREDITARY NATURE OF THE TWO FORMS OF ARGYROGRAMMA ALBOSTRIATA (BREMER AND GREY) (NOCTUIDAE, PLUSIINAE).
T Ichinose H Takahashi Y Ishino
Kontyu 35(4):329-336 REF
Nov 1967 421 K833
Argyrogramma albostriata, Heredity, Insect genetics, Insect morphology, Insect rearing, Noctuidae, Polymorphism, Wings (insects).

3899-69
SALIVARY GLAND CHROMOSOME VARIATION IN THE DROSOPHILA AFFINIS SUBGROUP. II. COMPARISON OF C-CHROMOSOME PATTERNS IN D. ATHABASCA AND FIVE RELATED SPECIES.
D D Miller W G Sanger
J Hered 59(6,NOV-DEC:)323-327 REF
Dec 1968 442.8 AM3
Chromosomes, Cytogenetics, Drosophila, Insect evolution, Insect genetics, Salivary glands.

3900-69
CHROMOSOMES OF THE CEREAL LEAF BEETLE.
T Ninan D H Smith S G Wellso
J Hered 59(6,NOV-DEC):361-362 REF
Dec 1968 442.8 AM3
Chromosomes, Cytogenetics, Insect genetics, Meiosis, Oulema melanopus.

3901-69
ENDOMITOSIS IN THE MEALY BUG, PLANOCOCCUS CITRI (HOMOPTERA: COCCOIDEA).
U Nur
Chromosoma 24(2):202-209
04 Jun 1968 442.8 C46
Chromosomes, Cytogenetics, Insect genetics, Mitosis, Planococcus citri.

The sequence of stages of endomitosis in the Malpighian tubules of the mealy bug, Planococcus citri, are compared to other hemipteran insects.

3902-69
MUTATION RATES AND MORTALITIES AFTER X-IRRADIATION OF THE EARLY DEVELOPMENT STAGES OF DROSOPHILA MELANOGASTER. (GE)
U B Petermann
Mutation Res 5(3,MAY-JUN):397-410 REF
1968 443.8 M98
Chromosomes, Drosophila melanogaster, Insect genetics, Insect mutation, Irradiation. English summary.

3903-69
AN AUTOSOMAL RECESSIVE GENE IN PYRRHOCORIS.
T M Rizki K Slama
J Hered 59(6,NOV-DEC):327-328
Dec 1968 442.8 AM3
Insect genetics, Insect mutation, Pyrrhocoris apterus.

3904-69
NOTES ON THE CHROMOSOMES OF TWO SPECIES OF COCKROACHES. (JA
K Saitoh M Saitoh
Kontyu 35(4):337-342 REF
Nov 1967 421 K833
Blattella germanica, Blattidae, Chromosomes, Insect genetics, Periplaneta americana. English summary.

3905-69
GENETICS OF ORGANOPHOSPHATE RESISTANCE IN THE TWO-SPOTTED SPIDER MITE (TETRANYCHUS URTICAE KOCH).
G G M Schulten
Amsterdam Inst Trop Mededel (57):57P REF
1968 503 AM82
Insect genetics, Insecticide resistant insects, Organophosphorus compounds, Tetranychus urticae.

3906-69
RELATIVE VIABILITY OF HETEROZYGOTES AND HOMOZYGOTES WITH RESPECT TO THE IRRADIATED CHROMOSOME IN DROSOPHILA MELANOGASTER. (RUS)
B V Shilenko
Genetika 4(4):65-77 REF
1968 QH431.A1G4
Chromosomes, Drosophila melanogaster, Insect genetics, Irradiation. English summary.

3907-69
HETEROGENEITY IN THE TRINIDAD DDT-RESISTANT STRAIN AND THE QS SUSCEPTIBLE STRAIN OF AEDES AEGYPTI L. THE ISOLATION OF HIGHLY RESISTANT AND HIGHLY SUSCEPTIBLE SUBSTRAINS.
R J Wood
World Health Organ Bull 39(4):639-645 REF
1968 449.9 W892B

Aedes aegypti, DDT, Insect genetics, Insecticide resistant insects. French summary.

MEDICAL ENTOMOLOGY

3908-69
COMPARATIVE STUDIES OF AMERICAN AND AFRICAN TRYPANOSOMIASIS.
World Health Organ Tech Rep Ser (411):40P
1969 449.9 W892T
Drug therapy, Epidemiology, Human diseases, Immunization, Insect vectors, Methodology, Parasites, Trypanosomiasis.

CROP PROTECTION

3909-69
HOW TO PREVENT SUN AND HEAT DAMAGE TO DESERT-GROWN TOMATOES.
Anonymous
Amer Veg Grower 17(4):58-59
Apr 1969 80 C733
Dosage, Plant hardiness, Plant injuries, Spraying, Tomatoes.

3910-69
ELECTRON MICROSCOPE EXAMINATION OF ULTRA-THIN SECTIONS OF STREPTOMYCES VIRIDOCHROMOGENES FOR HYPHAL ANASTOMOSES.
E Baldacci P Heiniger
Milan Univ Inst Patol Veg Pubbl Raccolta (325):141-152 REF
1967 464.9 M582
Anastomosis, Culture media, Electron microscopy, Fungi, Plant genetics, Plant physiology, Streptomyces viridochromogenes. Italian summary.

Reprint from: Giornale di Microbiologia 14:141-152 1966.

3911-69
PLANT PROTECTION IN THE HEART OF EUROPE. AUSTRIAS CONTRIBUTION TO THE INTERNATIONAL FIGHT AGAINST PLANT PESTS AND DISEASES AND, THROUGH THIS, TO THE IMPROVEMENT OF THE FOOD SITUATION. (GE)
F Beran
Pflanzenarzt 20(9):97-99
01 Sep 1967 464.9 P482
Crops, Fungi, Insect pests, Plant diseases, Plant pest control, Plant protection, Weeds.

3912-69
CROP ROTATION HYGIENE IN GRAIN CULTURES. (GE)
H Bockmann
Gesunde Pflanzen 19(10):201-206
Oct 1967 464.8 G33
Crop rotation, Grain, Insect pests, Plant disease resistance, Plant nematodes, Plant protection.

3913-69
CURRENT STATUS ON CHEMICAL THINNING OF PEACHES AND PEARS IN MICHIGAN.
M J Bukovac J E Gilmore
Mich State Hort Soc Annu Rep 87-91
1968 81 M58
Chlorophenoxy-alpha-propionamide, 3-, Chlorophenoxy-alpha-propionic acid, 3-, Naphthylacetamide, Peaches, Pears, Spraying, Thinning (fruit).

3914-69
THE TRAINING COURSE OF THE EUROPEAN PLANT PROTECTION ORGANIZATION IN ENGLAND. (GE)
P Burmeister
Gesunde Pflanzen 20(12):267-271
Dec 1968 464.8 G33
Bacterial diseases (plants), Erwinia amylovora, Fire blight, Fruit, International cooperation, Plant protection, Symptomatology, Virus diseases (plants).

3915-69
PLANT PROTECTION ANNUAL REPORT 1967. (GE)
G Glaeser
Pflanzenarzt 21(3):32-33
01 Mar 1968 464.9 P482
Plant pest control, Plant protection, Reports.

3916-69
INSECT CONTROL FOR GARDEN VEGETABLES.
H W Goble
Ontario Dep Agr Publ 356:6 P.
7 ON8P
Accident prevention, Aphididae, Biochemistry, Carbaryl, Chemical control (pests), Ddt, Diazinon, Dusting, Elateridae, Gardens, Insect pests, Malathion, Methoxychlor, Nicotine, Noctuidae, Rotenone, Slugs, Spraying, Tables (data), Vegetables. Published by Dept. of Agriculture and Food, parliament buildings, toronto

3917-69
THIS MAY BE THE YEAR FOR SPRAY THINNING.
M B Hoffman
Amer Fruit Grower 89(3):18,20
Mar 1969 80 G85W
Apples, Peaches, Pears, Spraying, Thinning (fruit), Thinning sprays.

3918-69
THE PLANT PROTECTION IMPORT CONTROLS IN BAVARIA. (GE)
K Kahlert
Gesunde Pflanzen 20(12):262-265 MAP
Dec 1968 464.8 G33
Import control, Insect pests, Plant disease control, Plant nematodes, Plant protection, Plant quarantine.

3919-69
MICROBES AND CHEMICALS AGAINST PLANT PESTS. (RUS)
N A Krasienikov
Sel'skokhozyast Biol 2(6):857-865 REF
1967 S13.S44
Antibiotics, Biological control (pests), Chemical control (pests), Insect pests, Plant diseases. English summary.

3920-69
MORPHOLOGICAL VARIATION IN THE SUGARCANE SMUT, USTILAGO SCITAMINEA SYD.
A K Lambat V V Chenulu B L Chona
Mycopathol Mycol Appl 36(314):300-304
1968 450 M994
Fungi, Isolates, Plant morphology, Smut, Sugarcane.

3921-69
ELECTRIFYING AGRICULTURE AND HORTICULTURE.
S Laverton
New Scientist 38(594):182-183
25 Apr 1968 472 N42
Animal physiology, Crop yields, Light, Plant physiology, Temperature.

3922-69
STRETCH YOUR PEST CONTROL DOLLARS.
F H Lewis
Amer Fruit Grower 89(3):21,40,42
Mar 1969 80 G85W
Costs, Insect pests, Pest control, Plant diseases, Plant protection, Spraying, Spraying equipment.

3923-69
SUPPLEMENT TO THE PLANT PROTECTION BULLETIN. (FR)
G Meylan
Rev Horticole Suisse 41(7):174-175
Jul 1968 80 R3212
Anthracnose, Apples, Beans, Carpocapsa pomonella, Fungus diseases (plants), Glomerella lindemuthianum, Insect pests, Pears, Ring spot, Venturia pirina.

3924-69
THE PRESENT STATE OF RESEARCH AND OF THE CONTROL OF RICE PESTS. (GE)
B Ohnesorge
Berlin Biol Bundesanst Land-forstwirtsch Mitt (129):71P REF
Aug 1968 410.9 G31M
Biological control (insects), Bird pests, Chemical control (pests), Insect outbreak forecasting, Insect pests, Plant diseases, Plant nematodes, Plant pest control, Research, Rice, Rodents.

3925-69
SOIL FUMIGATION AT BOSKOOP. (DU)
H Rattink
Neth Dir Tuinbouw Mededel 31(617,JUN-JUL):269-273
1968 86 N384
Dichloropropane dichloropropene mixture, Dosage, Methyl bromide, Methyl isothiocyanate, Plants, Soil fumigation, Soil microorganisms. English summary.

3926-69
THE IMPORTANCE OF APPLIED ENTOMOLOGY FOR AUSTRIAN PLANT PROTECTION. (GE)
K Russ
Pflanzenarzt 20(9):100-102
01 Sep 1967 464.9 P482
Chemical control (plant diseases), Entomology, History, Insect outbreak forecasting, Legislation, Nematology, Plant pest control, Plant protection, Virus diseases (plants).

3927-69
ON THE VALUE OF OUR BIRDS. (GE)
H Schonbeck
Pflanzenarzt 20(2):10-11
01 Feb 1967 464.9 P482
Animal nutrition, Beneficial birds, Bird pests, Insect pests, Natural control (insects), Rodents.

3928-69
THE EFFECT OF TEMPERATURE ON ASCOSPORE RELEASE BY SCLERODERRIS LAGERBERGII.
D D Skilling
Plant Dis Rep 53(4):289-291
Apr 1969 1.9 P69P
Environment, Fungi dissemination, Scleroderris lagerbergii, Spores, Temperature.

3929-69
NEW WAYS FOR ORGANIZING THE COOPERATION BETWEEN PLANT PROTECTION SERVICES AND APICULTURISTS. (GE)
W Springensguth
Gesunde Pflanzen 20(9):190-192
Sep 1968 464.8 G33
Apiculture, Beneficial insects, Legislation, Plant protection.

3930-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE CONTROL STATION OF GENEVA. FEBRUARY. (FR)
Rev Horticole Suisse 41(2):52-53
Feb 1968 80 R3212
Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Insect pests, Ornamental plants, Plant disease control.

3931-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE CONTROL STATION OF GENEVA. AUGUST. (FR)
Rev Horticole Suisse 41(8):206-207
Aug 1968 80 R3212
Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Insect pests, Ornamental plants, Plant disease control.

3932-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE CONTROL STATION OF GENEVA. SEPTEMBER. (FR)
Rev Horticole Suisse 41(9):230-232
Sep 1968 80 R3212

Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Insect pests, Ornamental plants, Plant disease control.

DISEASES

3933-69
ARE FERTILIZER PROGRAMS RELATED TO FIREBLIGHT AND FRUIT DISORDERS AT HARVEST .
Mich State Hort Soc Annu Rep 108-113
1968 81 M58
Bacterial diseases (plants), Calcium, Fertilizers, Fire blight, Fruit, Harvesting, Nitrogen, Phosphorus, Plant disease resistance, Plant nutrition, Potassium. Other elements used were magnesium, manganese, iron, boron, copper and zinc.

3934-69
PSEUDOMONAS SYRINGAE INFECTION OF SWEET CHERRY FRUIT IN UTAH.
J L Anderson B N Wadley J P Schaelling
Plant Dis Rep 53(4):301-303
Apr 1969 1.9 P69P
Blight, Canker, Epidemiology, Fungus diseases (plants), Mazzard cherries, Pseudomonas syringae, Weather.

3935-69
REACTION OF TOMATO VARIETIES AGAINST ALTERNARIA SOLANI AND CLADOSPORIUM FULVUM.
K S Aulakh R K Grover
Plant Dis Rep 53(5):399
May 1969 1.9 P69P
Alternaria solani, Cladosporium fulvum, Crop varieties, Fungus diseases (plants), India, Plant disease resistance, Tomatoes.

3936-69
A NEW LEAF SPOT OF PARA RUBBER (HEVEA BRASILIENSIS) IN NIGERIA.
V A Awoderu
Plant Dis Rep 53(5):406-408
May 1969 1.9 P69P
Corynespora cassiicola, Fungus diseases (plants), Hevea brasiliensis, Leaf spot, Rubber.

3937-69
VIRUS DISEASES AND THE SELECTION OF GRAPES. (IT)
E Baldacci G Belli E Refati
Milan Univ Inst Patol Veg Pubbl Raccolta (312):G1P
1967 464.9 M582
Chemical control (nematodes), Grapes, Plant breeding, Plant disease control, Plant disease transmission, Plant nematodes, Virus diseases (plants).
No. 42 in series Edagricole Universale , Edizioni Agricole, Bologna, Italy.

3938-69
NOTES ON THE INTERNATIONAL MEETING ON VIRUS AND VIRUS DISEASES OF GRAPES, HELD AT BERNKASTEL (WEST GERMANY) IN SEPTEMBER 1967. (IT)
E Baldacci G Belli
Milan Univ Inst Patol Veg Pubbl Raccolta (313):239-249
1967 464.9 M582
Grape vineyards, Insect vectors, Symptomatology, Virology, Virus diseases (plants). English summary.
Reprint from: Rivista di Patologia Vegetale ser. IV 3(4,Oct-Dec) 1967.

3939-69
THE CAUSES OF DISEASE IN PLANT PATHOLOGY. (IT)
E Baldacci
Milan Univ Inst Patol Veg Pubbl Raccolta (308):94-98
1967 464.9 M582
Plant diseases, Plant genetics, Vegetables. English, German, Spanish and French summaries.
Reprint from: Studi in onore di Ugo Pratolongo . Vol. XI della rivista Agrochimica, 1967.

3940-69
THE PLANT DISEASE OBSERVATORY OF MILAN. (IT)
E Baldacci M Martelli
Milan Univ Inst Patol Veg Pubbl Raccolta (310):3-7 MAP REF
1967 464.9 M582
Agricultural research, Crops, Plant diseases, Plant protection, Reports. Reprint from. Agricoltura (8), August 1967, Rome, Italy.

3941-69
STEM AND ROOT DISEASES OF BEANS.
B Ballantyne
Agr Gaz New S Wales 79(8):463-468
Aug 1968 23 N472
Beans, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Fusarium solani phaseoli, Rhizoctonia, Sclerotinia sclerotiorum, Sclerotium rolfsii.
The symptoms of several rot diseases that affect the stems and roots of beans are specifically diagnosed. Because different causal organisms require different control measures the importance of accurate identification of the disease is stressed.

3942-69
INVESTIGATIONS ON HYDRANGEA RING SPOT VIRUS AND PROOF OF ITS PRESENCE IN ITALY. (IT)
G Belli G Giussani-Belli
Milan Univ Inst Patol Veg Pubbl Raccolta (315):3-16 REF
1967 464.9 M582
Electron microscopy, Hydrangea, Ring spot, Symptomatology, Virology, Virus diseases (plants). English summary.
Reprint from: Rivista di Patologia Vegetale ser. IV 3(3,Jul-Sep):3-16 1967.

3943-69
PROBLEMS AROUND THE INCIDENCE AND CONTROL OF FUSARIUM OXYSPORUM IN TULIPS. (DU)
B H H Bergman
Neth Dir Tuinbouw Mededel 31(617,JUN-JUL):274-277
1968 86 N384
Epidemiology, Fungus diseases (plants), Fusarium oxysporum, Plant disease control, Plant extracts. English summary.

3944-69
FREEZING AND THAWING OF PURIFIED SUSPENSIONS OF THE TOBACCO MOSAIC VIRUS AND ITS EFFECT ON INFECTIVITY. (IT)
E Betto Conti G Vegetti
Milan Univ Inst Patol Veg Pubbl Raccolta (318):309-321 REF
1967 464.9 M582
Electron microscopy, Mosaic, Temperature, Tobacco, Virology, Virus diseases (plants). English summary.
Reprint from: Rivista di Patologia Vegetale ser. IV 3(4,Oct-Dec):309-321 1967.

3945-69
PHOMA EXIGUA DESM. AND ITS VARIETIES.
G H Boerema L H Howeler
Persoonia 5(PT 1):15-28 REF
1967 QK600.P4
Diagnosis, Fungus cultures, Fungus diseases (plants), Phoma exigua, Taxonomy.
3 more specialized pathogenic varieties of this species are distinguished: var. linicola on flax, var. foveata on potato, and var. sambuci-nigrae on elder.

3946-69
RESISTANCE OF DWARF-INTERNODE CASTOR (RICINUS COMMUNIS) TO VERTICILLIUM WILT.
R D Brigham E B Minton
Plant Dis Rep 53(4):262-266
Apr 1969 1.9 P69P
Castorbeans, Cotton, Fungus diseases (plants), Plant disease resistance, Verticillium albo-atrum, Wilt.

3947-69
DUTCH ELM DISEASE DETECTED IN ALABAMA.
H D Brown D R Kucera P H Preacher
Plant Dis Rep 53(4):307
Apr 1969 1.9 P69P
Ceratocystis ulmi, Dieback, Epidemiology, Fungus diseases (plants), Symptomatology, Ulmus alata.

3948-69
THE PRESENT STATE OF GRAPE CULTURE VIRUS RESEARCH. (GE)
H Bruckbauer
Weinberg Keller 15(8):413-434 REF
Aug 1968 95.8 W435
Grapes, Insect vectors, Plant disease control, Plant disease transmission, Plant nematodes, Research, Virology, Virus diseases (plants).

3949-69
PLANT PATHOLOGY FIELD DAY.
W J Byford
Bull British Mycol Soc 2(1):51-52
Mar 1968 QK600.B7
Beans, Crop varieties, Fungus diseases (plants), Halo blight, Plant disease resistance, Virus diseases (plants).

3950-69
DISCOVERY AND DISTRIBUTION OF FUSICOCCUM CANKER OF RUSSIAN OLIVE IN ILLINOIS.
J C Carter F O Dodd
Plant Dis Rep 53(5):392
May 1969 1.9 P69P
Canker, Fungus diseases (plants), Fusicoccum elaeagni, Olives.

3951-69
VIRUS DISEASES SURVEY ON CITRUS IN THE BLACK SEA REGION. (TU
A Cengiz N Tekinel M S Dolar S Sagsoz O Hancioglu
Bitki Koruma Bulteni 8(3):172-180
1968 464.8 B542
Citrus, Symptomatology, Virus diseases (plants). English summary.

3952-69
SURVEY, SCREENING, AND BREEDING FOR BACTERIAL BLIGHT RESISTANCE IN COTTON.
C F Chew J T Presley G Staten
Plant Dis Rep 53(5):390-391
May 1969 1.9 P69P
Bacterial blight, Bacterial diseases (plants), Cotton, Epidemiology, Plant breeding, Plant disease resistance, Surveys.

3953-69
STEM RUST OF WHEAT IN CANTERBURY.
R C Close
New Zealand Wheat Rev (10):47-52
1967 59.8 N48
Fungus diseases (plants), Puccinia graminis, Stem rust, Wheat.

3954-69
MAIZE DWARF MOSAIC-EFFECTS OF VIRUS STRAINS A AND B ON YIELD AND INTERACTION EFFECTS OF ATRAZINE AND THE VIRUS ON YIELD.
H Cole D R MacKenzie J S Boyle C D Ercegovich
Plant Dis Rep 53(5):340-344
May 1969 1.9 P69P
Atrazine, Chemical control (plant diseases), Corn, Crop yields, Dwarf mosaic, Virus diseases (plants).

3955-69
A FLOWER BLIGHT OF CHRYSANTHEMUM IN SOUTH FLORIDA.
R S Cox

3956-69

Plant Dis Rep 53(4):257-259
Apr 1969 1.9 P69P
Alternaria, Blight, Carbamates, Chemical control (plant diseases), Chrysanthemum, Fungicides, Fungus diseases (plants), Stemphylium, Symptomatology, Tetrachloroisophthalonitrile.

3956-69
DISEASES AND PARASITES OF THE ROSE. (FR)
A Duperrex
Rev Horticole Suisse 41(7):1-16
Jul 1968 80 R3212
Chemical control (plant diseases), Copper carbonate, Diazinon, DDT, Fungus diseases (plants), Illustrations, Insect pests, Lindane, Plant physiological diseases, Rosa, Symptomatology, Thiocarbamates, Zineb.

3957-69
LOW TEMPERATURE SPRAYS FOR DUTCH ELM DISEASE CONTROL.
A H Epstein
Plant Dis Rep 53(4):304-306
Apr 1969 1.9 P69P
Ceratocystis ulmi, Chemical control (plant diseases), Chlorinated hydrocarbons, Dieback, DDT, Fungus diseases (plants), Methanol, Methoxychlor, Spraying, Temperature, Ulmus, Water.

3958-69
CROWN RUST OF OATS IN CANADA IN 1968.
G Fleischmann
Can Plant Dis Surv 48(3):99-101
Sep 1968 464.9 C16S
Crop losses, Crown rust, Fungus diseases (plants), Oats, Puccinia coronata.

3959-69
SOME OBSERVATIONS ON THE SHAPE AND LOCALIZATION OF DIFFERENT VIRUSES IN EXPERIMENTALLY INFECTED PLANTS, AND ON THE FINE STRUCTURE OF THE HOST CELLS. IV:ABABIS MOSAIC VIRUS IN PETUNIA HYBRIDA HORT.
F M Gerola M Bassi G Giussani-Belli
Milan Univ Inst Patol Veg Pubbl Raccolta (321):481-491
1967 464.9 M582
Arabis, Electron microscopy, Mosaic, Petunia, Plant physiology, Virology, Virus diseases (plants). Italian summary.
Reprint from: Caryologia 19(4):481-491 1966.

3960-69
BROAD-BEAN STAIN AND TRUE BROAD-BEAN MOSAIC VIRUS.
A J Gibbs G Giussani-Belli H G Smith
Milan Univ Inst Patol Veg Pubbl Raccolta (319):99-107 REF
1967 464.9 M582
Broadbeans, Mosaic, Symptomatology, Virology, Virus diseases (plants).
Reprint from: Annals of Applied Biology (g1):99-107 1968.

3961-69
INDEX TESTS OF CERTIFIED AND UNCERTIFIED NURSERY FRUIT TREES IN WASHINGTON IN 1968.
B Gomec E C Blodgett M D Aichele
Plant Dis Rep 53(4):243-244
Apr 1969 1.9 P69P
Fruit nurseries, Indexing, Testing, Virus diseases (plants).

3962-69
AIR-BORNE RUST INOCULUM OVER WESTERN CANADA IN 1968.
G J Green J W Martens
Can Plant Dis Surv 48(3):110-111
Sep 1968 464.9 C16S
Air-borne plant diseases, Fungus diseases (plants), Leaf rust, Stem rust.

3963-69
PREVENTION OF THE SPREAD OF NON-PERSISTENT PLANT VIRUSES BY OIL SPRAYING. (DU)
F A Hakkaart
Neth Dir Tuinbouw Mededel 31(617,JUN-JUL):262-268 REF
1968 86 N384
Chemical control (plant diseases), Oils, Phytotoxicity, Spraying, Virus diseases (plants). English summary.

3964-69
CHEMICAL CONTROL OF STRIPE SMUT IN MERION KENTUCKY BLUEGRASS.
P M Halisky C R Funk P L Babinski
Plant Dis Rep 53(4):286-288
Apr 1969 1.9 P69P
Benomyl, Chemical control (plant diseases), Chlorinated hydrocarbons, Fungus diseases (plants), Furyl)-benzimidazole, 2-(2-, Pentachloronitrobenzene, Poa pratensis, Stripe smut, Ustilago striiformis.

3965-69
THE IDENTITY OF PHYLLACTINIA ON WINGED ELM IN GEORGIA.
R T Hanlin
Plant Dis Rep 53(5):395-397
May 1969 1.9 P69P
Fungus diseases (plants), Phyllactinia angulata, Powdery mildew, Ulmus alata.

3966-69
SOME OBSERVATIONS ON THE LATE OCCURRENCE OF PERONOSPORA ON GRAPES IN THE PERIOD 1964-1966. (GE)
J Henner
Pflanzenarzt 20(3):25-26
01 Mar 1967 464.9 P482
Climate, Fungicides, Fungus diseases (plants), Grapes, Peronospora, Rainfall, Spraying.

3967-69
FUNGICIDES FOR ARABICA COFFEE 17--RELATIONSHIPS AMONG SOME NEW FUNGICIDES, LEAF RUST (HEMILEIA VASTATRIX), LEAF FALL AND YIELD.
D Hocking G H Freeman
Trop Agr &st Augustine& 45(2):141-145
Apr 1968 26 T754
Chemical control (plant diseases), Coffee, Copper oxychloride, Fungicides, Fungus diseases (plants), Hemileia vastatrix, Leaf rust.
Although copper oxychloride provided more effective control of coffee leaf rust than seven new fungicides tested, at no dosage did it exceed more than about 30 percent of the control value.

3968-69
ADDITIONAL VARIETIES OF AGROSTIS PALUSTRIS INFECTED BY USTILAGO STRIIFORMIS VAR. AGROSTIDIS.
C F Hodges
Plant Dis Rep 53(4):298-299
Apr 1969 1.9 P69P
Agrostis palustris, Crop varieties, Fungus diseases (plants), Stripe smut, Ustilago striiformis.

3969-69
LOSSES FROM FUSARIUM STEM ROT CAUSED BY FUSARIUM ROSEUM, IN PRODUCTION OF CUTTINGS OF CARNATION, DIANTHUS CARYOPHYLLUS.
R K Horst P E Nelson
Florists Rev 143(3715):39,110-113
06 Feb 1969 80 W41
Crop losses, Dianthus caryophyllus, Fungus diseases (plants), Fusarium roseum, Plant cuttings, Stem rot.

3970-69
STUDIES OF LEPTOSPHAERIA AVENARIA F. SP. TRITICEA ON WHEAT IN NORTH DAKOTA.
R M Hosford R O Hogenson J E Huguelet R L Kiesling
Plant Dis Rep 53(5):378-381 REF
May 1969 1.9 P69P
Fungus cultures, Fungus diseases (plants), Leptosphaeria, Septoria, Wheat.

3971-69
EFFICACY OF FUNGICIDES, HOT WATER AND GAMMA-IRRADIATION FOR CONTROL OF POSTHARVEST FRUIT ROTS OF PAPAYA.
J E Hunter I W Buddenhagen E S Kojima
Plant Dis Rep 53(4):279-284 REF
Apr 1969 1.9 P69P
Aminobutane, 2-, Dichloro-4-nitroaniline, 2,6-, Fruit rot, Fungicides, Fungus diseases (plants), Gamma rays, Papayas, Plant disease control, Thermotherapy.

3972-69
FUNGUS DISEASES OF COTTON SEEDLINGS IN EGYPT. (GE)
M H Jakob
Hohemheim Landwirt Hochsch Diss (11):66P MAP REF
May 1967 105.8 H686D
Captan, Chemical control (plant diseases), Chlorinated hydrocarbons, Cotton, Disulfoton, Fungus diseases (plants), Fusarium moniliforme, Fusarium oxysporum, Pentachloronitrobenzene, Plant disease resistance, Pythium ultimum, Rhizoctonia gossypii, Seedlings.

3973-69
BIOLOGY OF THE FUNGUS ASPERGILLUS FLAVUS LINK AND ITS INFECTIVITY TO PLANTS AND ANIMALS.
Joffe
Hebrew University Of Jerusalem, Israel 187P REF
29 Sep 1968 QK623.A9H4
Aflatoxin, Aspergillus flavus, Biology, Feed contamination, Fungicides, Fungus diseases (plants), Peanuts, Plant geography.

3974-69
FUSARIUM WILT (RACE 2) OF TOMATO: CALCIUM, PH, AND MICRONUTRIENT EFFECTS ON DISEASE DEVELOPMENT.
J P Jones S S Woltz
Plant Dis Rep 53(4):276-279
Apr 1969 1.9 P69P
Calcium, Fungus diseases (plants), Fusarium, Hydrogen-ion concentration, Micronutrients, Nutrient solutions (plants), Tomatoes, Wilt.

3975-69
FRUIT DISEASE PROBLEMS AND NEW APPROACHES TO THEIR CONTROLS.
E J Klos
Mich State Hort Soc Annu Rep 92-94
1968 81 M58
Apples, Bacterial diseases (plants), Brown rot, Cherries, Fire blight, Fruit, Fungus diseases (plants), Leaf spot, Plant disease control, Scab.

3976-69
MICRONUTRIENTS: THE SECRET OF BETTER YIELDS FOR FARMERS.
J Knap
Good Farming 19(2):46-47
Mar 1968 7 G59
Crop yields, Micronutrients, Plant nutrition, Plant nutritional deficiencies.

3977-69
LODGING RESISTANCE IN WHEAT. II. IDENTIFICATION OF SUPERIOR GENETIC STOCKS.
S P Kohli K K Mukherjee K L Sethi
Indian J Agron 12(3):236-242 REF
Sep 1967 22 IN235
Crop losses, Lodging, Plant disease resistance, Plant diseases, Plant genetics, Wheat.

3978-69
VIRULENCE OF VARIOUS GROUPS OF LOOSE SMUT OF BARLEY, (USTILAGO NUDA (JENS.) ROSTR.) PHYSIOLOGICAL RACES IN THE LIGHT OF ANATOMICAL INVESTIGATIONS OF SPRING BARLEY VARIETIES DIFFERENT WITH REGARD TO RESISTANCE. I.

SPREADING OF PATHOGENE IN HOST PLANT TISSUE. (POL)
W Kozera
Hodowla Roslin Aklimatyzacja Nasiennictwo 11(2):143-177 REF
1967 64.8 H66
Barley, Crop varieties, Fungus diseases (plants), Loose smut, Plant anatomy, Plant disease resistance, Plant physiology, Ustilago nuda. English and russian summaries.

3979-69
ELEMENTS FOR A STUDY ON THE NEEDLE-CAST FUNGUS OF SCOTCH PINE LOPHODERMIUM PINASTRI (SCHRAD.) CHEV. PHENOLOGICAL STUDY: FALL OF NEEDLES AND DEVELOPMENT OF HYSTEROTHECIA. (FR
L Lanier
Forestierier Sci Ann 25(1):35-50 REF
1968 99.9 F845
Fungus diseases (plants), Lophodermium pinastri, Pinus sylvestris, Plant physiology. English and German summaries.

3980-69
CONTRIBUTION TO THE STUDY OF OLIGOSPORIC ACTINOMYCETES. I. DESCRIPTION OF A NEW SPECIES OF ACTINOBIFIDA: ACTINOBIFIDA ALBA SP. NOV. AND REVISION OF THE GENUS.
R Locci E Baldacci B Petrolini
Milan Univ Inst Patol Veg Pubbl Raccolta (327):79-91 REF
1967 464.9 M582
Actinomycetes, Bacterial diseases (plants), Biochemistry, Morphology. Italian summary.
Reprint from: Giornale di Microbiologia 15:79-91 1967.

3981-69
AVOID YELLOW DWARF VIRUS BY LATE SOWING.
A D Lowe
New Zealand Wheat Rev (10):59-63
1967 59.8 N48
Grain, Plant protection, Planting, Time, Virus diseases (plants), Yellow dwarf.

3982-69
AGLAONEMA PICTUM, A NEW HOST OF ERWINIA CHRYSANTHEMI.
L A McFadden
Plant Dis Rep 53(4):253-254
Apr 1969 1.9 P69P
Aglaonema, Bacterial diseases (plants), Erwinia chrysanthemi, Leaves, Soft rot, Symptomatology.

3983-69
DISEASE AND INSECT CONTROL IN HOME ORCHARDS.
N E McGlohon E D Harris
Ga Univ Coll Agr Ext Serv Circ (522):7P
Nov 1968 275.29 G29C
Accident prevention, Chemical control (insects), Chemical control (plant diseases), Conotrachelus nenuphar, Dosage, Fruit, Insect control, Insect pests, Insecticides, Plant diseases, Pruning, Sanninoidea exitiosa, Spraying.

3984-69
THE OCCURRENCE OF THE DOWNY MILDEW DISEASE OF TOBACCO. (GE
W Mentzel
Gesunde Pflanzen 20(12):266
Dec 1968 464.8 G33
Downy mildew, Epidemiology, Fungus diseases (plants), Tobacco.

3985-69
BIOCHEMISTRY OF PLANT IMMUNITY AND DORMANCY AS THE FOUNDATION FOR THE CROP PROTECTION AGAINST DISEASES AND GERMINATION. (RUS)
L V Metlitsky
Priklad Biokhim Mikrobiol Akad Nauk SSSR 3(5,SEP/OCT):534-541
1967 385 P93
Antibiotics, Immunity, Plant biochemistry, Plant diseases, Plant dormancy, Plant metabolism, Plant protection, Seed germination. English summary.

3986-69
LOPHODERMIUM DURILABRUM FOUND ON FOXTAIL PINE IN CALIFORNIA.
D R Miller
Plant Dis Rep 53(4):271
Apr 1969 1.9 P69P
Fungus diseases (plants), Lophodermium durilabrum, Pinus balfouriana.

3987-69
MULTIPLICATION OF TOBACCO MOSAIC VIRUS IN SUSPENSION CULTURE OF TOBACCO CELLS.
F Motoyoshi N Oshima
Jap J Microbiol 12(3):317-320
Sep 1968 448.8 J273
Mosaic, Tissue culture, Tobacco, Virology, Virus diseases (plants).

3988-69
MELANOSE OF CITRUS.
Agr Gaz New S Wales 79(8):BACK COVER
Aug 1968 23 N472
Citrus, Diaporthe citri, Fungicides, Fungus diseases (plants), Melanose.

3989-69
A RACE OF USTILAGO TRITICI VIRULENT ON THATCHER WHEAT AND ITS DERIVATIVES.
J Nielsen
Plant Dis Rep 53(5):393-395
May 1969 1.9 P69P
Crop varieties, Fungus diseases (plants), Plant disease resistance, Ustilago tritici, Wheat.

3990-69
STUDIES ON CROWN GALL BACTERIA, AGROBACTERIUM TUMEFACIENS CONN II. ELECTRON MICROSCOPIC OBSERVATION ON THE FINE STRUCTURE IN DIVIDING AND NON-DIVIDING PHASES. (JA)
R Nishizawa
Bot Mag Tokyo 81(961,JUL-AUG):404-410 REF
1968 450 B651
Agrobacterium tumefaciens, Bacterial diseases (plants), Bacteriology, Cell division, Cell nucleus, Crown galls, Cytoplasm, Electron microscopy. English summary.

3991-69
A TRANSMISSIBLE FRUIT-DEPRESSION DISEASE OF MCINTOSH APPLES.
D H Palmiter
Plant Dis Rep 53(5):329-322
May 1969 1.9 P69P
Abnormalities, Apples, McIntosh depression virus, Plant disease transmission, Virus diseases (plants).

3992-69
LIVE OAK IN MISSISSIPPI INFECTED BY ENDOTHIA PARASITICA.
P H Peacher
Plant Dis Rep 53(4):304
Apr 1969 1.9 P69P
Canker, Endothia parasitica, Fungus diseases (plants), Quercus virginiana.

3993-69
VIRGINIA PINE, A NEW HOST FOR CRONARTIUM COMANDRAE.
H R Powers
Plant Dis Rep 53(4):320
Apr 1969 1.9 P69P
Cronartium comandrae, Epidemiology, Fungus diseases (plants), Pinus virginiana, Seedlings.

3994-69
NEW CHEMICALS LOOK GOOD FOR WEED CONTROL IN MICHIGAN ORCHARDS.
A R Putnam
Mich State Hort Soc Annu Rep 94-96
1968 81 M58
Chemical control (plant diseases), Chemicals, Fruit, Herbicides, Pesticide application, Spraying. New chemicals'used were Paraquat, Karmer or simazine, Casoron, Sinbar, D acid, 2,4-, D amine, 2,4- and Ammate.

3995-69
EFFECT OF SCLEROSPORA GRAMINICOLA INFECTION ON TOTAL NITROGEN CONTENT AND FREE AMINO ACID COMPOSITION OF BAJRA PLANTS.
J N Rai A K Sinha
Mycopathol Mycol Appl 36(314):293-299 REF
1968 450 M994
Amino acids, Fungus diseases (plants), Nitrogen, Pearlmillet, Plant biochemistry, Sclerospora graminicola, Tryptophan.

3996-69
FUNGAL AND BACTERIAL DISEASES OF CRUCIFERS AND CUCURBITS IN WESTERN ONTARIO IN 1967.
A A Reyes G H Comly L F Mainprize D A Pallet C A Warner
Can Plant Dis Surv 48(3):95-96
Sep 1969 464.9 C16S
Bacterial diseases (plants), Cabbage, Cauliflower, Cucumbers, Fungus diseases (plants), Muskmelons, Surveys. The author lists the disease and the cause of the disease on crucifers and cucurbits.

3997-69
DEVELOPMENT OF A NEW VARIETY OF TOMATO NAMED MIGUEL PEREIRA, WITH RESISTANCE TO BOTH FUSARIUM AND VERTICILLIUM WILTS. (POR)
R L D Ribeiro H Watanabe S Sudo L A B Castro N R Leal
Agronomia 25(1/2,JAN-JUN):21-24
1967 9.2 AG892
Crop varieties, Fungus diseases (plants), Fusarium, Plant disease resistance, Tomatoes, Verticillium, Wilt.

3998-69
DISTRIBUTION AND HOST RANGE OF MAIZE DWARF MOSAIC VIRUS IN VIRGINIA.
C W Roane S A Tolin
Plant Dis Rep 53(4):307-310 MAP REF
Apr 1969 1.9 P69P
Corn, Dwarf mosaic, Epidemiology, Grasses, Host indexing (plants), Perennial plants, Sorghum halepense, Virus diseases (plants).

3999-69
LEAF RUST OF WHEAT IN CANADA IN 1968.
D J Samborski
Can Plant Dis Surv 48(3):107-109
Sep 1968 464.9 C16S
Crop losses, Fungus diseases (plants), Leaf rust, Puccinia recondita, Wheat.

4000-69
EFFECTS OF TOBACCO MOSAIC VIRUS ON THE PHOSPHORUS METABOLISM OF NICOTIANA XANTHI N. C. (FR)
R Scalla R Meignoz
Ann Physiol Veg 9(4):383-396 REF
1967 451 F8432
Mosaic, Phosphorus compounds, Plant metabolism, Tobacco, Virus diseases (plants). English summary.

4001-69
EFFECTS OF EARLY AND LATE INOCULATION OF MAIZE DWARF MOSAIC VIRUS STRAIN A AND B ON SHELLED GRAIN YIELDS OF SUSCEPTIBLE AND RESISTANT MAIZE SEGREGATES OF A THREE-WAY HYBRID.
G L Scheifele
Plant Dis Rep 53(5):345-347
May 1969 1.9 P69P
Corn, Crop varieties, Crop yields, Dwarf mosaic, Immunity, Plant disease resistance, Virus diseases (plants).

4002-69
DETECTABLE LEVELS OF XANTHOMONAS MALVACEARU IN COTTON GIN DEBRIS WITH THE SEED-SOAK METHOD.
W C Schnathorst
Plant Dis Rep 53(5):400-402
May 1969 1.9 P69P
Bacterial diseases (plants), Cotton, Seedlings, Xanthomonas malvacearum.

4003-69
RESISTANCE TO BENOMYL IN POWDERY MILDEW OF CUCURBITS.
W T Schroeder R Provvidenti
Plant Dis Rep 53(4):271-275
Apr 1969 1.9 P69P
Benomyl, Chemical control (plant diseases), Cucumbers, Fungus diseases (plants), Immunity, Powdery mildew, Resistance, Sphaerotheca fuliginea.

4004-69
THE IN VITRO ESTABLISHMENT OF PITH CALLUSES AND NODAL TUMORS OF BRASSICA OLERACEA.
W R Sharp D Davidson
Torrey Bot Club Bull 96(1,JAN-FEB):114-116
1969 451 T63B
Cabbage, Culture media, Pith, Plant diseases, Plant galls, Tissue culture.

4005-69
A NEW VIRUS DISEASE OF CARICA PAPAYA IN INDIA.
A B Singh
Plant Dis Rep 53(4):267-269
Apr 1969 1.9 P69P
Host indexing (plants), Insect vectors, Myzus persicae, Papayas, Plant disease transmission, Symptomatology, Virus diseases (plants).

4006-69
FIELD EVALUATION OF SOME FUNGICIDES FOR CONTROL OF LEAF AND STEM RUSTS OF WHEAT.
D V Singh B M Khanna A N Khanna
Plant Dis Rep 53(5):352-355 REF
May 1969 1.9 P69P
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf rust, Spraying, Stem rust, Wheat. Eight fungicides were tested. The best results were obtained with application of maneb.

4007-69
SPORE DISPERSAL BY SCLERODERRIS LAGERBERGII UNDER NURSERY AND PLANTATION CONDITIONS.
D D Skilling
Plant Dis Rep 53(4):291-295 REF
Apr 1969 1.9 P69P
Fungi dissemination, Fungus diseases (plants), Nurseries, Plant disease transmission, Plantations, Rainfall, Scleroderris lagerbergii, Spores.

4008-69
COMPARATIVE INTERACTIONS OF ERWINIA CAROTOVORA AND ERWINIA AMYLOVORA WITH PEAR AND POTATO TISSUES.
D H Spalding B C Smale
Plant Dis Rep 53(4):255-256
Apr 1969 1.9 P69P
Bacterial diseases (plants), Bacteriology, Erwinia amylovora, Erwinia carotovora, Ethyl acetate, Pears, Plant extracts, Potatoes, Tissue culture.

4009-69
THE EFFECT OF LOW DOSES OF GAMMA IRRADIATION UPON THE RATE OF INFECTION OF PLANTS WITH POWDERY MILDEW. II. A DIFFERENTIATED SUSCEPTIBILITY OF WINTER WHEAT ZELAZNA VARIETY TO INFECTION WITH POWDERY MILDEW (ERYSIPHE GRAMINIS F. TRITICI DC MARCH). (POL)
S Starzycki J Pala E Konopko
Hodowla Roslin Aklimatyzacja Nasiennictwo 11(2):269-274 REF
1967 64.8 H66
Erysiphe graminis tritici, Fungus diseases (plants), Gamma rays, Irradiation, Powdery mildew, Wheat. English and Russian summaries.

4010-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE STATION OF GENEVA. MARCH. (FR)
Rev Horticole Suisse 41(3):72-73
Mar 1968 80 R3212
Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Ornamental plants, Plant pest control, Plant protection, Virus diseases (plants).

4011-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE STATION OF GENEVA. JUNE. (FR)
Rev Horticole Suisse 41(6):156-158
Jun 1968 80 R3212
Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Ornamental plants, Plant pest control, Plant protection, Virus diseases (plants).

4012-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE STATION OF GENEVA. OCTOBER. (FR)
Rev Horticole Suisse 41(10):266-267
Oct 1968 80 R3212
Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Ornamental plants, Plant pest control, Plant protection, Virus diseases (plants).

4013-69
PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE STATION OF GENEVA. APRIL. (FR)
Rev Horticole Suisse 41(4):95-97
Apr 1968 80 R3212
Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Ornamental plants, Plant pest control, Plant protection, Virus diseases (plants).

4014-69
THE TOBACCO MOSAIC VIRUS (TMV) IN THE NUTRITIVE SOLUTION OF THE TOMATO HYDROPONOUS CULTURE. (RUS)
K S Sukhov T F Yazykova
Zhur Obshch Biol 29(5,SEP/OCT):611-616 REF
1968 442.8 Z6
Bacteria, Greenhouse culture, Hydroponics, Microorganisms, Mosaic, Plant disease transmission, Pseudomonas, Tobacco, Tomatoes, Virus diseases (plants). English summary.

4015-69
BROWN ROT CONTROL IN SOUTHERN CALIFORNIA.
Sunkist Pest Contr Circ (372):1-2
Nov 1968 423.9 C12E
Brown rot, Chemical control (plant diseases), Crop losses, Fruit, Fungus diseases (plants), Plant injuries, Spraying.

4016-69
WILD SPECIES AS A SOURCE OF RESISTANCE TO DISEASES. (RUS)
M F Ternovskii
Sel'skokhozyast Biol 2(6):832-839 REF
1967 S13.S44
Bacterial diseases (plants), Crop varieties, Fungus diseases (plants), Immunity, Plant disease resistance, Plant genetics, Tobacco, Virus diseases (plants). English summary

4017-69
BUGGY-WHIP OF CORN AND ITS RELATION TO THE INCIDENCE OF COMMON SMUT.
A J Ullstrup
Plant Dis Rep 53(4):250-252
Apr 1969 1.9 P69P
Absorption, Buggy whip, Corn, Epidemiology, Plant injuries, Smut, Symptomatology.

4018-69
OCCURRENCE OF CRONARTIUM COMPTONIAE IN THE MARITIME PROVINCES.
G A Van Sickle
Plant Dis Rep 53(5):369-371 REF
May 1969 1.9 P69P
Cronartium comptoniae, Cronartium stalictiforme, Epidemiology, Fungus diseases (plants), Pinus, Stem rust, Sweetfern blister rust.

4019-69
POSSIBILITIES FOR BOTRYTIS CINEREA CONTROL, ESPECIALLY IN TOMATOES. (DU)
K Verhoeff
Neth Dir Tuinbouw Mededel 31(617,JUN-JUL):250-251 REF
1968 86 N384
Botrytis cinerea, Fungus diseases (plants), Nitrogen, Soil analysis, Tomatoes. English summary.

4020-69
OCCURRENCE OF EPHELIS ON RICE VARIETY IR-8 AND COTTON GRASS IN INDIA.
H C Vindu
Plant Dis Rep 53(5):360
May 1969 1.9 P69P
Balansia oryzae, Fungus diseases (plants), Imperata cylindrica, Rice.

4021-69
PHYTOPATHOLOGICAL PROBLEMS IN AUSTRIA. (GE)
G Vukovits
Pflanzenarzt 20(9):103-106
01 Sep 1967 464.9 P482
Crops, Phytopathology, Plant diseases, Plant pest control.

4022-69
IDENTIFICATION OF RACES OF PSEUDOMONAS PHASEOLICOLA FROM QUEBEC BEAN FIELDS.
V R Wallen
Can Plant Dis Surv 48(3):97-98 REF
Sep 1968 464.9 C16S
Bacterial diseases (plants), Beans, Culture media, Pseudomonas phaseolicola.

4023-69
TESTS ON DRY FUMIGATION OF POTATO SEEDLINGS AGAINST RHIZOCTONIA DISEASE. (GE)
H Wenzl
Pflanzenarzt 21(3):34-37
01 Mar 1968 464.9 P482
Chemical control (plant diseases), Fumigation, Fungus diseases (plants), Potato seeds, Rhizoctonia.

4024-69
ILLUSTRATIVE SCALES FOR THE EVALUATION OF POTATO SCAB AND RHIZOCTONIA INFECTION.
H Wenzl J Demel
Pflanzenarzt 20(7):77-78
01 Jul 1967 464.9 P482
Diagnosis, Fungus diseases (plants), Illustrations, Potatoes, Rhizoctonia, Scab, Statistical methods, Symptomatology.

4025-69
SUSCEPTIBILITY OF COASTAL FORM AND CENTRAL MONTANA DOUGLAS-FIR TO ARCEUTHOBIUM DOUGLASII.
E F Wicker
Plant Dis Rep 53(4):311-314 REF
Apr 1969 1.9 P69P
Arceuthobium, Epidemiology, Fungus diseases (plants), Plant disease resistance, Pseudotsuga menziesii.

4026-69
FROM THE REALM OF MICROORGANISMS. SOME INTERESTING STRUCTURES OF PLANT MICROORGANISMS. (GE)
W Wittmann

Pflanzenarzt 20(3):22-24
01 Mar 1967 464.9 P482
Fungi, Fungus diseases (plants), Microorganisms, Mycology.

4027-69
HYBRID CORN YIELD REDUCTION BY STALK AND ROOT ROT IN NEBRASKA.
D S Wysong E Kerr
Plant Dis Rep 53(5):326-329
May 1969 1.9 P69P
Cephalosporium, Corn, Crop losses, Fungus diseases (plants), Fusarium, Root rot, Stalk rot.

4028-69
TRANSMISSION OF THE VIRUS COMPONENT OF THE RAGI (ELEUSINE CORACANA) DISEASE-COMPLEX IN MYSORE, INDIA.
R C Yaraguntaiah K V Keshavamurthy
Plant Dis Rep 53(5):361-363
May 1969 1.9 P69P
Aphididae, Insect vectors, Mosaic, Plant disease transmission, Ragimillet, Sogatella, Virus diseases (plants).

4029-69
THE RATE OF CONTAMINATION IN RELATION TO THE PERCENTAGE OF INFECTION IN THE PARASITIC DISEASES OF PLANTS. (FR)
C Zambettakis
Rev Gen Sci Pures Appl 75(3/4,MAR-APR):73-81
1968 473 R324
Air-borne plant diseases, Botrytis cinerea, Fungus diseases (plants), Parasitism, Plant disease transmission, Plant diseases, Plant nematodes, Spores.

4030-69
WHY IS THE DISINFECTION TREATMENT OF CORN SEEDS ABSOLUTELY NECESSARY . (GE)
B Zwatz
Pflanzenarzt 20(4):39-40
01 Apr 1967 464.9 P482
Bacterial diseases (plants), Corn, Fungus diseases (plants), Seed treatment, Seed-borne plant diseases, Soil-borne plant diseases, Thiocarbamates, Thiram.

ARTHROPODS

4031-69
CORN EARWORM THREATENS SNAPBEANS.
Anonymous
Amer Veg Grower 17(4):48
Apr 1969 80 C733
Beans, Carbamates, Carbaryl, Chemical control (insects), Dusting, Heliothis zea, Insecticide application.

4032-69
THE PEACH TWIG BORER AND ITS CONTROL.
E W Anthon
Wash State Univ Ext E M (2034):5P
Oct 1968 275.29 W27MI
Anarsia lineatella, Chemical control (insects), Crop losses, Insect biology, Insect pests, Insecticides, Plant injuries, Spraying. Insecticides tested were DDT, parathion, dieldrin, Sevin, Guthion, Thiodan, Diazinon and oil plus Ddt.

4033-69
THE SAN JOSE SCALE A PEST OF ORNAMENTAL SHRUBS. (GE)
H Bohm
Pflanzenarzt 20(4):34-35
01 Apr 1967 464.9 P482
Aspidiotus perniciosus, Chemical control (insects), Host indexing (plants), Parathion, Shrubs. 10 host shrubs are listed

4034-69
THE ATTRACTION TO PISSODES NOTATUS (COL. CURCULIONIDAE) OF THE WOUNDS FORMED BY MATSUOCOCCUS FEYTAUDI DUC. (HOM. COCCOIDEA) ON MARITIME PINE. (FR)
P Carle
Forestierier Sci Ann 25(1):25-33
1968 99.9 F845
Forest insects, Matsucoccus feytaudi, Pinus pinaster, Pissodes notatus, Plant injuries, Tree diseases. English and German summaries.

4035-69
A CONTRIBUTION TO THE STUDY OF THE PEMPHIGOSE OF POPLARS AND ITS PATHOGEN PAMPHIGUS SPIROTHECAE. (FR)
V I Gusic
Biologia (bratislava) 24(2):166-172
1969 442.8 B5265
Insect ecology, Life cycle, Pemphigus, Plant diseases, Populus. Czech and Russian abstracts.

4036-69
PLANT VIRUS DISEASES IN TURKEY WHICH ARE TRANSMITTED BY INSECT VECTORS. (TU)
S Iren
Bitki Koruma Bulteni 7(3):107-116 REF
1967 464.8 B542
Insect vectors, Plant disease transmission, Potatoes, Satsuma oranges, Sugar beets, Vegetables, Virus diseases (plants). English summary.

4037-69
BLOODWORMS--PESTS OF RICE.
E L Jones
Agr Gaz New S Wales 79(8):477-478
Aug 1968 23 N472
Chemical control (insects), Chironomus, Cultural control (insects), Insect biology, Insect pests, Larvae, Rice.

Cultural control measures to avoid the accumulation of organic material on the soil surface, and dressing rice seed with DDT are recommended in order to prevent extensive damage to rice seedlings by Chironomus larvae.

4038-69
THE ALTERNATE GENERATION OF CALLIRHYTIS QUERCUSSUTTONII (BASSETT)(HYMENOPTERA: CYNIPOIDEA).
R J Lyon
Entomol Soc Wash Proc 71(1):61-65
Mar 1969 420 W27
Callirhytis quercussuttonii, Chemical control (insects), Cynipoidea, Gall-making insects, Quercus, Spraying.

4039-69
RASPBERRY MOTH.
Great Brit Min Agr Fish Food Adv Leafl (66):1-3
Dec 1967 10 G79LA
Chemical control (insects), Cultural control (insects), DDT, Insect biology, Lampronia rubiella, Lindane, Raspberries.

The life cycle and control of the raspberry moth Lampronia rubiella) with a description of infested plants are discussed. Burning of all infested wood and control with tar oil washes, DDT and lindane are the recommended control measures.

4040-69
APHIDS AND VIRUS IN NORTH CANTERBURY WHEAT, 1965-66 SEASON.
R I Mulholland R C Close R C Stephen
New Zealand Wheat Rev (10):53-58
1967 59.8 N48
Aphididae, Insect vectors, Time, Virus diseases (plants), Wheat, Yellow dwarf.

4041-69
INSECTICIDE GRANULES AND VIRUS IN AUTUMN-SOWN WHEAT.
R I Mulholland C T Jessep
New Zealand Wheat Rev (10):64-69
1967 59.8 N48
Aphididae, Insect vectors, Insecticides, Rhopalosiphum padi, Virus diseases (plants), Wheat, Yellow dwarf.

4042-69
THE APPEARANCE OF BEET APHIDS IN 1966. (GE)
O Schreier
Pflanzenarzt 20(4):36-37
01 Apr 1967 464.9 P482
Aphididae, Beets, Insecticide application, Plant pest control.

4043-69
THE OLEANDER SCALE, PSEUDAULACASPIS PENTAGONA (TARG.), (HOMOPTERA, COCCIDAE) IN BERMUDA.
F J Simmonds
Bermuda Dep Agr Bull 1):44P REF
Jul 1968 8 B45B
Aspidiotus hederae, Biological control (insects), Forest insects, Insect pests, Lizards, Parasitism, Predaceous insects, Pseudaulacaspis pentagona.

Its natural enemies were Prospaltella berlesei, Aspidiotiphagus spp., Cybocephalus sp., Pentilia insidiosa, Cryptognatha simillima, Chilocorus cacti, and miscellaneous Coccinellids. The role of the lizard in biological control is explained.

4044-69
SOME IMPORTANT ASPECTS OF COTTON INSECT CONTROL.
J P Tunstall
RNFC Crops Conf 1967 MEETING:17-18
Jul 1967 S573.R45
Accident prevention, Chemical control (insects), Cotton, Insect identification, Insecticide application, Spraying.

NEMATODES

4045-69
BREEDING AND PROPAGATION OF VIRUS-FREE GRAPES IN HYDROPONIC CULTURES. (IT)
E Baldacci F Lalatta
Milan Univ Inst Patol Veg Pubbl Raccolta (314):251-255
1967 464.9 M582
Grapes, Nematode infestation, Nutrient solutions (plants), Plant breeding, Plant disease resistance, Plant physiology, Tillage, Virus diseases (plants). English summary.

Reprint from: Rivista di Patologia Vegetale ser. IV 3(4,Oct-Dec):251-255 1967.

4046-69
INFLUENCE OF SIX COVER CROPS ON POPULATION DENSITY OF PRATYLENCHUS PENETRANS.
G W Bird
Can Plant Dis Surv 48(3):113
Sep 1968 464.9 C16S
Cover crops, Crop varieties, Plant nematodes, Pratylenchus penetrans. The cover crops were Sorghum vulgare sudanense, Lolium perenne, Dactylis glomerata, Medicago sativa, Vicia sativa and Sudan grass x sorghum hybrid.

4047-69
OVERWINTERING OF MELOIDOGYNE INCOGNITA IN SOUTHWESTERN ONTARIO.
G W Bird
Can Plant Dis Surv 48(3):112
Sep 1968 464.9 C16S
Hibernation, Meloidogyne incognita, Plant galls, Plant nematodes, Vegetables.

4048-69
NEMATODES ASSOCIATED WITH BANANAS IN THE WINDWARD ISLANDS.
J E Edmunds
Trop Agr &st Augustine& 45(2):119-124
Apr 1968 26 T754
Bananas, Nematodes, Plant nematodes, Rhizosphere, Rotylenchulus, Soil microorganisms.

4049-69
SURVIVAL OF THE SOYBEAN CYST NEMATODE IN SEED STOCKS.

J M Epps
Plant Dis Rep 53(5):403-405
May 1969 1.9 P69P
Heterodera glycines, Plant nematodes, Seeds, Soybeans.

4050-69
NINE VARIETIES OF SOUTHERN PEAS RESISTANT TO THE SOYBEAN CYST NEMATODE.
J M Epps
Plant Dis Rep 53(4):245
Apr 1969 1.9 P69P
Cowpeas, Crop varieties, Heterodera glycines, Plant nematodes, Plant pest resistance.

4051-69
A NOTE ON THE NEMATICIDAL PROPERTIES OF 'SEVIN'.
D W Fenwick
Trop Agr &st Augustine& 45(2):125-126
Apr 1968 26 T754
Biological assay, Carbamates, Carbaryl, Chemical control (nematodes), Insecticides, Nematocides.

Several laboratory experiments are described which indicate that the insecticide 'sevin' may have utility as a nematocide.

4052-69
LIFE CYCLE AND REPRODUCTION OF MELOIDOGYNE HAPLA ON POTATO.
G D Griffin E C Jorgenson
Plant Dis Rep 53(4):259-261
Apr 1969 1.9 P69P
Meloidogyne hapla, Nematode morphology, Plant nematodes, Potatoes, Reproduction.

4053-69
NEMATODES ARE DESTRUCTIVE TO YOUR PLANTS.
R D Guerrero
Philippine Farms Gardens 5(9):14,28
Sep 1968 25 P5323
Agronomy, Chemical control (nematodes), Crop losses, Fumigation, Nematocides, Plant nematodes.

4054-69
LONGIDORUS AFRICANUS A PATHOGEN OF HEAD LETTUCE IN THE IMPERIAL VALLEY OF SOUTHERN CALIFORNIA.
J D Radewald J W Osgood K S Mayberry A O Paulus F Shibuya
Plant Dis Rep 53(5):381-384
May 1969 1.9 P69P
Lettuce, Longidorus africanus, Plant diseases, Plant nematodes.

4055-69
NEMATODOFAUNA OF A MIXED HORNBEAM-OAK FOREST SOIL AND OF THE NEIGHBORING CULTIVATED LANDS AT BAB NEAR NITRA. (CZ
A Saly
Biologia (bratislava) 24(2):135-147 REF
1969 442.8 B5265
Forest soils, Nematode populations, Plant nematodes, Soil microorganisms, Surveys. Russian and English abstracts.

4056-69
GOLDEN NEMATODE FOUND IN DELAWARE.
J F Spears
Plant Dis Rep 53(4):243
Apr 1969 1.9 P69P
Heterodera rostochiensis, Plant nematodes, Potatoes, Zoogeography.

4057-69
CONTROL OF THE CITRUS NEMATODE, TYLENCHULUS SEMIPENETRANS, WITH 1,2-DIBROMO-3-CHLOROPROPANE IN TAIWAN.
M Toung
Plant Dis Rep 53(4):300-301
Apr 1969 1.9 P69P
Chemical control (nematodes), Citrus, Dibromo-3-chloropropane, 1,2-, Nematocides, Plant nematodes, Tylenchulus semipenetrans.

4058-69
HOST RESISTANCE REFLECTED IN DIFFERENTIAL NEMATODE POPULATION STRUCTURES.
D R Viglierchio N A Croll
Science 161(3838):271-272
19 Jul 1968 470 SC12
Alfalfa, Ditylenchus dipsaci, Onions, Plant nematode resistance, Plant nematodes, Population, Red clover.

WEEDS

4059-69
NOW CAN YOU SPOT THOSE WEEDS.
Anonymous
Good Farming 19(2):28-29
Mar 1968 7 G59
Agropyron repens, Ascelepias syriaca, Avena fatua, Cirsium arvense, Convolvulus arvensis, Equisetum arvense, Illustrations, Linaria vulgaris, Weeds.

4060-69
FURTHER RESEARCH ON THE CONTROL OF ECHINOCHLOA IN RICE FIELDS. (IT)
E Baldacci L Chiapparini C Moglia
Milan Univ Inst Patol Veg Pubbl Raccolta (332):159-187 REF
1967 464.9 M582
Chemical control (weeds), Echinochloa, Herbicides, Rice. English summary.

Reprint from: Il Riso 16(3):159-187 Sep 1967. the following herbicides were tested Ordram, Glenbar, Dacthal, H 64-5001, Propanil, and Monalide on rice.

4061-69
CHEMICAL WEED CONTROL IN IRRIGATION CHANNELS AND DRAINS.
S M Bill W A E Graham
Renown Press Pty. Ltd., Carnegie, Australia 34P
1968 SB613.A88B52
Accident prevention, Aquatic weeds, Chemical control (weeds), Drainage ditches, Economics, Herbicides, Water pollution.

4062-69
DEFOLIATION EFFECTS ON FOREST ECOLOGY.
L T Burcham
Science 161(3837):109
12 Jul 1968 470 SCI2
Chemical control (weeds), D, 2,4-, Defoliation, Dosage, Herbicides, Phenoxy acid compounds, Spraying, T, 2,4,5-.

4063-69
THE DEVELOPMENT OF CHEMICAL WEED CONTROL IN ORNAMENTAL PLANTS IN FIELDS. (IT)
L Chiapparini
Milan Univ Inst Patol Veg Pubbl Raccolta (330):12P REF
1967 464.9 M582
Chemical control (weeds), Dosage, Herbicides, Ornamental plants, Pesticide application. English summary. 65 herbicides were tested.

Reprint from: Atti delle Giornate di Studio sul diserbo in Floricoltura e nei settori affini 16-17 Sep 1965; Turin, Italy , pages 53-62.

4064-69
THE LASTING INFLUENCE OF TRIAZINES AND THE EFFECT OF HERBICIDE MIXTURES IN THE TREATMENT OF CORN. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
J Debrevodsky
77-82
1966 SB951.U8
Ametryne, Atrazine, Chemical control (weeds), Corn, Evaluation, Herbicide residues, Herbicides, Linuron, Prometryne, Triazine. Czech and Russian summaries many herbicide mixtures were compared.

4065-69
CONTROLLING WEEDS IN TOBACCO WITH BENEFIN.
A D Doyle
Agr Gaz New S Wales 79(8):456-459
Aug 1968 23 N472
Benefin, Brachiaria pigligera, Chemical control (weeds), Digitaria, Echinochloa crusgalli, Eragrostis cilianensis, Herbicides, Tobacco.

The methodology and economics of benefin application on tobacco to control Digitaria, Eragrostis cilianensis, Echinochloa crusgalli, Brachiaria pigligera, and Portulaca oleracea is presented.

4066-69
WEEDS MEAN WASTE KNOW YOUR WEEDS AND HOW TO CONTROL THEM.
J G Haney
International Harvester Company, Chicago, Illinois. 44P MAP
1929 SB611.H3
Annual plants, Crop rotation, Illustrations, Poisons, Tillage, Weed control, Weeds.

4067-69
DOMESTIC QUARANTINE NOTICES. WITCHWEED. REGULATED AREAS.
F A Johnston
Fed Regist 34(34,PT 1):2351
19 Feb 1969 L1.451
Agricultural regulation, Plant protection, Plant quarantine, Striga, Weeds.

4068-69
CONTROL OF OROBANCHE UNDER NATURAL AND ARTIFICALLY INFESTED CONDITIONS.
T Krishnamoorthi A S Krishnan
Indian J Agron 12(3):277-282
Sep 1967 22 IN235
Environment, Orobanche, Parasitism, Plant protection, Tobacco, Weed control.

4069-69
AUTUMN WEED CONTROL FOR CONTINUOUS CEREAL GROWERS.
G H MacKenzie
Seed Trade Rev 20(12):203-204
Dec 1968 61.8 SE32
Agropyron repens, Blackgrass, Equipment, Grain, Herbicides, Tillage, Weed control.

4070-69
WEED CONTROL IN FRUITS AND NUTS.
J F Miller
Ga Univ Coll Agr Ext Serv Circ (569):3P
Jan 1969 275.29 G29C
Accident prevention, Chemical control (weeds), Dosage, Fruit, Herbicides, Nuts, Spraying.

4071-69
WEED CONTROL IN VEGETABLES.
J F Miller
Ga Univ Coll Agr Ext Serv Circ (544):4P
Jan 1969 275.29 G29C
Accident prevention, Chemical control (weeds), Dosage, Herbicides, Spraying, Vegetables.

4072-69
CORN MARIGOLD (GOLDINGS, YELLOW OX-EYE, YELLOW BOTTLE).
Great Brit Min Agr Fish Food Adv Leafl (529):4P
Feb 1968 10 G79LA
Accident prevention, Chemical control (weeds), Costs, Cultural control (weeds), Dosage, Herbicides, Seedlings.

4073-69
RAGWORT.
Great Brit Min Agr Fish Food Adv Leafl (280):6P
Jan 1968 10 G79LA
Accident prevention, Agricultural legislation, Chemical control (weeds), D, 2,4-, Grazing,

Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Poisonous plants, Senecio jacobaea, Spraying, Symptomatology.

4074-69
PERENNIAL BINDWEEDS.
Great Brit Min Agr Fish Food Adv Leafl (450):4P
Sep 1967 10 G79LA
Asparagus, Chemical control (weeds), Convolvulus, Currants, D, 2,4-, Grain, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Methyl-4-chlorophenoxyacetic acid, 2-, Perennial plants, Phenoxy acid compounds, Polygonum convolvulus, Potatoes, Tillage, Turf.

4075-69
CHEMICAL WEED CONTROL IN POTATO (SOLANUM TUBEROSUM L.). A REVIEW.
M K Moolani S K Agarwal
Indian J Agron 12(3):231-235 REF
Sep 1967 22 IN235
Chemical control (weeds), Herbicides, Potatoes.

Most common weeds in potato crops of India: Chenopodium arvensis, Fumaria purifcora, Portulaca oleracea, cyperus rotuudus, and Amaranthus viridis.

4076-69
NEW HERBICIDES FOR CONTROLLING WEEDS IN UPLAND RICE.
S K Mukhopadhyay S Bag
Indian J Agron 12(3):253-256
Sep 1967 22 IN235
Carbamates, Chemical control (weeds), Herbicides, Prometryne, Propanil, Rice, Urea compounds.

4077-69
BRUSH CONTROL THROUGH SHREDDING.
B Nelson
Cattleman 55(10):40,41,82,84,85
Mar 1969 49 C29
Brush control, Equipment, Tractors.

4078-69
FOAMING AGENTS AS GROUND COVER AGAINST WEEDS. (GE)
H Neururer
Pflanzenarzt 20(4):37-38
01 Apr 1967 464.9 P482
Plastics, Weed control.

4079-69
FURTHER TEST OF THE CONTROL OF AVENA FATUA IN SUGAR BEETS. (GE
H Neururer
Pflanzenarzt 21(3):37-38
01 Mar 1968 464.9 P482
Avena fatua, Chemical control (weeds), Cultural control (weeds), Di-allate, Gramoxone, Pyramin, Sugar beets.

4080-69
DEFOLIATION EFFECTS ON FOREST ECOLOGY.
M Newton
Science 161(3837):109
12 Jul 1968 470 SCI2
Cacodylic acid, Chemical control (weeds), D, 2,4-, Defoliation, Herbicides, Phenoxy acid compounds, Spraying, T, 2,4,5-.

4081-69
THE EFFECTIVENESS OF THE NEWER HERBICIDES FOR THE CONTROL OF WEEDS IN CULTIVATED PLANTS WITH SPECIAL ATTENTION TO WEEDS WHICH ARE DIFFICULT TO CONTROL. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
J Rola
107-113
1966 SB951.U8
Apera spica-venti, Cabbage, Chemical control (weeds), Fruit, Galium aparine, Grain, Herbicides, Onions, Potatoes, Stellaria media, Sugar beets, Tomatoes. Czech and Russian summaries. discussion of many weeds and herbicides.

4082-69
STUDIES ON WEED CONTROL IN GROUNDNUT (ARACHIS HYPOCEAE) - A REVIEW.
G B Singh M K Moolani
Indian J Agron 12(3):267-273 REF
Sep 1967 22 IN235
Peanuts, Research, Weed control.

4083-69
DISTRIBUTION, IMPORTANCE AND PROBLEMS OF HERBICIDE USE IN YUGOSLAVIA. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
A Srekajs
187-192
1966 SB951.U8
Atrazine, Chemical control (weeds), D, 2,4-, Herbicides, Plant hormones, Prometryne, Root crops, Simazine, Sunflowers, Vegetables.

4084-69
SPRAYING POST OAK BRUSH PAYS DIVIDENDS.
S Toeppich
Cattleman 55(10):46,56
Mar 1969 49 C29
Aerial spraying, Brush control, Costs, Farm management, Quercus stellata.

4085-69
EFFECTIVE METHODS FOR THE USE OF HERBICIDES IN COMBINATION WITH THE MINERAL FERTILIZERS. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (RUS)
H A Tsesalin
83-90
1966 SB951.U8
Ammonium nitrate, Annual plants, Chemical control (weeds), D, 2,4-, Fertilizers, Herbicides, Matricaria inodora, Methodology, Minerals. German and Czech summaries.

4086-69
CHEMICAL CONTROL OF WEEDS IN THE HUNGARIAN VINEYARDS. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
G Ubrizsy F M Csongrady
117-120
1966 SB951.U8
Ametryne, Atrazine, Chemical control (weeds), Grape vineyards, Paraquat, Prometryne, Simazine, Triazine, Weeds. Czech and Russian summaries.

4087-69
CHEMICAL WEED CONTROL IN SUNFLOWER CULTURES. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (RUS)
A Ulinich
175-186
1966 SB951.U8
Chemical control (weeds), Prometryne, Spraying, Sunflowers, Tables (data). Czech and German summaries.

4088-69
CHEMICAL WEED CONTROL PROBLEMS IN OUTDOOR VEGETABLE GROWING. (DU
J Verlaat
Neth Dir Tuinbouw Mededel 31(617,JUN-JUL):252-256
1968 86 N384
Chemical control (weeds), Plant physiology, Vegetables, Weeds. English summary.

4089-69
HERBICIDES IN THE PERSPECTIVES OF 20 MONTHS AND 20 YEARS.
J A Wheeler
Science 161(3838):255-256
19 Jul 1968 470 SCI2
Brush control, Chemical control (weeds), Herbicides, Plant biochemistry, Time.

4090-69
HARMLESSNESS OF HERBICIDES FOR THE BIOCENOSIS. IN: COLLECTION OF REPORTS GEVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)
A W Wojewodin
97-105 REF
1966 SB951.U8
Animals, Biocenosis, Ecology, Fungi, Herbicides, Insects, Plant biochemistry, Soil microorganisms, Tables (data). Czech and Russian summaries.

4091-69
CHEMICAL CONTROL OF ANNUAL BLUEGRASS AS RELATED TO VERTICAL MOWING.
V B Youngner F J Nudge
Calif Turfgrass Cult 18(3):17-18
Jul 1968 60.18 S08
Bensulide, Chemical control (weeds), Grasses, Mowing, Poa annua.

OTHER PESTS

4092-69
DAMAGES DONE TO BEET SEEDS BY THE FOREST MOUSE (APODEMUS SYLVATICUS). (GE)
A von Horn
Gesunde Pflanzen 19(10):216
Oct 1967 464.8 G33
Beets, Chemical control (pests), Chlorinated hydrocarbons, Heptachlor, Rodents, Thiocarbamates, Thiram.

4093-69
PHILIPPINE FIELD RATS AND THEIR CONTROL.
J P Sumangil
Philippine Farms Gardens 5(9):4-5
Sep 1968 25 P5323
Biological control (pests), Chemical control (pests), Poisoning, Rats.

LIVESTOCK PROTECTION

4094-69
ENUMERATION OF BACTERIA ON POULTRY CARCASS SKIN. (ABSTRACT).
J S Avens
Poultry Sci 47(5):1653
Sep 1968 47.8 AM33P
Bacteria, Poultry, Skin. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4095-69
ESTROGENIC ACTIVITY OF O,P'-DDT IN THE MAMMALIAN UTERUS AND AVIAN OVIDUCT.
J Bitman H C Cecil S J Harris G F Fries
Science 162(3851):371-372 REF
18 Oct 1968 470 SCI2
Animal physiology, Biochemistry, Birds, DDT, Estrogens, Mammals, Reproduction, Uterus.

4096-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE RONNEL.
R E Duggan
Fed Regist 34(66):6259
08 Apr 1969 L1.451
Animal nutrition, Cattle, Food additives, Ronnel.

4097-69
INTERACTION OF ANTIMYCIN A AND ROTENONE IN FISH BIOASSAYS.

R M Howland
Progr Fish-cult 31(1):33-34
Jan 1969 157.5 P94
Antimycin a, Biochemistry, Biological assay, Fish, Rotenone.

4098-69
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. BUQUINOLATE.
J K Kirk
Fed Regist 34(66):6239
08 Apr 1969 L1.451
Buquinolate, Chickens, Food additives, Food consumption, Regulations.

4099-69
THE ANABOLIC STEROIDS AND THEIR USE IN VETERINARY THERAPEUTICS. (FR)
J P S Pellerin
Alfort Ecole Nat Vet These (56):67P REF
1968 41.2 AL23
Dosage, Hormones, Metabolism, Pharmacology, Steroids, Therapeutics, Veterinary medicine.

4100-69
THE INFLUENCE OF FEED AND WATER RESTRICTION AND PITRESSIN ADMINISTRATION UPON THYROXINE SECRETION IN DOMESTIC FOWL.
R P Penn T M Huston
Poultry Sci 47(5):1432-1437 REF
Sep 1968 47.8 AM33P
Chickens, Dehydration (physiological), Hormones, Pitressin, Radioactivity, Secretion, Starvation, Thyroid gland, Thyroxine.

4101-69
PAYZONE NITROVIN-A NEW GROWTH PROMOTER FOR POULTRY. (ABSTRACT).
J M Pensack A L Shor K L Simkins
Poultry Sci 47(5):1707-1708
Sep 1968 47.8 AM33P
Animal physiology, Chickens, Chlortetracycline, Food additives, Nitrovin. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4102-69
ABSTRACTS OF PAPERS PRESENTED AT THE 57TH ANNUAL MEETING OF THE POULTRY SCIENCE ASSOCIATION.
Poultry Sci 47(5):1651-1735
Sep 1968 47.8 AM33P
Poultry, Reports, Societies.

4103-69
INFLUENCE OF PROTAMONE ON BONE FRAGILITY OF CAGED HENS. (ABSTRACT).
L O Rowland R H Harms
Poultry Sci 47(5):1712
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Bones, Chickens, Dosage, Protamone. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4104-69
THE EFFECTS OF A SINGLE MASSIVE DOSE OF PHENYLHYDRAZINE ON DIFFERENT HEMATOLOGICAL TRAITS OF CHICKENS. (ABSTRACT).
K R Stino K W Washburn
Poultry Sci 47(5):1722-1723
Sep 1968 47.8 AM33P
Animal physiology, Chickens, Dosage, Erythrocytes, Hematology, Phenylhydrazine. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4105-69
INFLUENCE OF VARIOUS CHELATING AGENTS ON ABSORPTION OF 60CO, 59FE, 54MN, AND 65ZN BY CHICKENS.
F A Suso H M Edwards
Poultry Sci 47(5):1417-1425 REF
Sep 1968 47.8 AM33P
Absorption, Biochemistry, Chelation, Chickens, Cobalt isotopes, Ethylenediaminetetraacetic acid, Iron isotopes, Magnesium, Tables (data), Zinc isotopes.

4106-69
THE EFFECTS OF RESERPINE ON THE REPRODUCTIVE PERFORMANCE OF BREEDER TURKEYS RECEIVING ARTIFICIAL INSEMINATION.
J F Tierce J C Gilbreath M A Maloney
Poultry Sci 47(5):1403-1405
Sep 1968 47.8 AM33P
Animal breeding, Artificial insemination, Reproduction, Reserpine, Turkeys.

4107-69
ADIPOSE TISSUE IN CALVES AND LAMBS.
P Wensvoort
Pathol Vet 5(3):270-281 REF
1968 41.8 P27
Adipose tissue (animals), Animal histology, Calves, Lambs. German summary.

DISEASES

4108-69
HEMAGGLUTININS INDUCED IN CHICKENS WITH MYCOPLASMA GALLISEPTICUM INFECTION. (ABSTRACT).
H E Adler
Poultry Sci 47(5):1651
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Chickens, Hemagglutination, Mycoplasma gallisepticum, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association

4109-69
22 PLANTS POISONOUS TO LIVESTOCK IN THE WESTERN UNITED STATES.
Usda Inform Bull (327):64P MAP
Apr 1968 1 AG84AB
Accident prevention, Livestock diseases, Mortality, Poisonous plants. The 22 poisonous plants are listed and described.

4110-69
DUCK VIRUS ENTERITIS (DUCK PLAGUE). INTERSTATE MOVEMENT.
R J Anderson
Fed Regist 34(73):6573-6574
17 Apr 1969 L1.451
Ducks, Enteritis, Interstate commerce, Plague, Poultry diseases, Regulations, Vaccines, Virus diseases (animals).

4111-69
INHERITED RESISTANCE TO SULFAQUINOXALINE TOXICITY IN THE CHICKEN. (ABSTRACT).
J A Arthur
Poultry Sci 47(5):1652-1653
Sep 1968 47.8 AM33P
Animal genetics, Chickens, Drugs, Immunity, Poultry diseases, Red water disease, Sulfaquinoxaline, Symptomatology. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4112-69
EMTRYL AND ANTIBIOTICS FOR TURKEY BREEDERS. (ABSTRACT).
S L Balloun D L Miller G M Speers A C Cox
Poultry Sci 47(5):1653-1654
Sep 1968 47.8 AM33P
Animal nutrition, Antibiotics, Diet, Emtryl, Reproduction, Turkeys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4113-69
INTESTINAL HISTOLOGY OF VITAMIN A DEFICIENT CHICKS. (ABSTRACT).
R C Bayer D C Foss G A Donovan
Poultry Sci 47(5):1654
Sep 1968 47.8 AM33P
Animal histology, Animal nutrition, Chicks, Deficiency diseases, Intestines, Poultry diseases, Tissue culture, Vitamin a. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4114-69
ENTEROTOXAEMIA OF CALVES EVOKED BY CLOSTRIDIUM PERFRINGENS TYPE B. (GE)
J Beer G Al-Khatib H Pilz
Monatsh Vet 23(1):18-25 REF
01 Jan 1968 41.8 M742
Cattle, Clostridium perfringens, Diagnosis, Enterotoxemia, Livestock diseases, Symptomatology. English and Russian summaries.

4115-69
TESTS ON LABORATORY ANIMALS AND ON TUBERCULAR COWS IN ORDER TO DETERMINE THE VALUE OF THE MORRUATO CUPRIC COLLOIDAL (GADUSAN) IN THE INTRADERMAL REACTION. (SP)
J A Benitez L B Toranzos V G Aucar H Laffont
Veterinaria (corrientes) 1(3):41-58 REF
1965 41.8 V6465
Cattle, Dosage, Gadusan, Intradermal allergic test, Laboratory animals, Livestock diseases, Tuberculosis. English summary.

4116-69
NEWCASTLE DISEASE VIRUS. CHARACTERISTICS OF A STRAIN (2425) ISOLATED IN CORDOBA, ARGENTINA IN 1961. II. COMPARATIVE STUDY OF IMMUNOLOGIC RELATIONSHIPS AND CELLULAR AFFINITIES. (SP
C M Bettinotti
Veterinaria (corrientes) 1(3):1-16 REF
1965 41.8 V6465
Absorption, Antigens, Chick embryos, Newcastle disease virus, Poultry diseases, Tissue culture, Virology. English summary.

4117-69
COMPARISON OF ATTENUATED LIVE PASTEURELLA MULTOCIDA GIVEN IN DRINKING WATER TO AN OIL-BASE BACTERIN ADMINISTERED TO TURKEYS. (ABSTRACT).
B W Bierer W F Scott T H Eleazer
Poultry Sci 47(5):1655-1656
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Bacterins, Oils, Pasteurella multocida, Poultry diseases, Statistical analysis, Turkeys, Vaccines, Water. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4118-69
EXPERIMENTAL CONTROL MYCOPLASMA MELEAGRIDIS IN TURKEYS BY THE TEMPERATURE DIFFERENTIAL DIPPING OF EGGS IN TYLOSIN AND SPIRAMYCIN. (ABSTRACT).
C H Bigland
Poultry Sci 47(5):1656
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Disease control, Drug therapy, Mycoplasma meleagridis, Poultry diseases, Spiramycin, Temperature, Turkey eggs, Turkeys, Tylosin. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4119-69
LATENT SKIN FUNGUS INFECTIONS IN ANIMALS AND THEIR IMPORTANCE FOR THE EPIDEMIOLOGY OF ANIMAL AND HUMAN DERMATOMYCOSES. (GE)
K H Bohm W Bisping
Deut Tierarztl Wochensch 75(19):473-476 REF
01 Oct 1968 41.8 D482
Animal diseases, Epidemiology, Fungi, Fungus diseases (animals), Human diseases, Ringworm, Skin diseases. English summary.

4120-69
INFLUENCE OF DIETARY FAT, SOYBEAN MEAL TREATMENT AND ANTIBIOTIC SUP-

PLEMENTATION ON GROWTH OF CHICKS FED DIFFERENT CARBOHYDRATES.
G D Borgo J McGinnis
Poultry Sci 47(5):1612-1616 REF
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Antibiotics, Carbohydrates, Chicks, Diet, Fats, Food additives, Soybean meal.

4121-69
SPONTANEOUS TUMORS OF THE BRAIN IN RATS: A REPORT OF 3 CASES.
G T A M Bots R Kroes V J Feron
Pathol Vet 5(3):290-296
1968 41.8 P27
Animal diseases, Brain, Neoplasms, Rats. German summary.

4122-69
NOTES ON TOXICOLOGY: THE CLOVER. (IT)
F Bottarelli
Veterinaria (milano) 17(2 MAR-APR):97-107 REF
1968 41.8 V6499
Clover, Drug therapy, Feed toxicity, Livestock, Poisonous plants, Symptomatology. The toxicity of alsike clover, crimson clover, red clover, white clover, subterranean clover is discussed.

4123-69
REPRODUCTIVE ABNORMALITIES IN HENS DEFICIENT IN LINOLEIC ACID. (ABSTRACT).
C C Calvert
Poultry Sci 47(5):1659
Sep 1968 47.8 AM33P
Animal abnormalities, Chickens, Deficiency diseases, Diet, Eggs, Linoleic acid, Reproduction. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4124-69
VIRULENCE, ADSORBABILITY, AND ANTIGENICITY OF FOOT-AND-MOUTH DISEASE VIRUS SELECTED BY ADSORPTION WITH HOMOGENIZED MOUSE KIDNEY.
C H Campbell
Arch Gesamte Virusforsch 26(3):238-248 REF
1969 448.3 AR23
Adsorption, Antigens, Foot-and-mouth disease virus, Kidneys, Mice, Tissue culture, Virology.

4125-69
CONTRIBUTION TO THE STUDY OF BOVINE MASTITIS DUE TO FUNGI. (FR
J-P P E Carbon
Alfort Ecole Nat Vet These (45):59P REF
1968 41.2 AL23
Antibiotics, Candida, Cattle, Cryptococcus, Deuteromycetes, Drug therapy, Epidemiology, Fungus diseases (animals), Livestock diseases, Mastitis, Symptomatology.

4126-69
OVINE GENITAL BRUCELLOSIS. EPIDIDMYTIS OF THE RAM (BRUCELLA OVIS). THE UTILIZATION OF A NEW ANTIGEN FOR THE COMPLEMENT FIXATION TEST AND INTRADERMAL REACTION. (SP)
V C F Cedro H O Cisale L M E de Benedetti
Argent Repub Inst Nac Zoonosis Ser Tec (N s)(21):16P REF
1963 41.9 AR36
Allergens, Antigens, Brucella ovis, Brucellosis, Complement fixation, Livestock diseases, Rams, Sheep. English summary.

Reprint from: Revista de Investigaciones Ganaderas no. 16

4127-69
LEPTOSPIROSIS IN ARGENTINA. DIFFUSION, MORBIDITY AND NOSOLOGICAL MAP. (SP)
V C F Cedro R A Cacchione M J Bulgini E S Martinez
Argent Repub Inst Nac Zoonosis Ser Tec (N s)(2):317-336 MAP REF
1960 41.9 AR36
Agglutination test, Bacterial diseases (animals), Epidemiology, Leptospirosis, Livestock diseases, Symptomatology. English and French summaries.

Reprint from: Revista de Investigaciones Ganaderas no. 10.

4128-69
PENETRATION AND DEVELOPMENT OF EIMERIA MAXIMA SPOROZOITES AND THE STATIC EFFECT OF DECOQUINATE. (ABSTRACT).
J R Challey C A Johnson
Poultry Sci 47(5):1660
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Chickens, Decoquinate, Drug therapy, Eimeria maxima, Macrophages, Poultry diseases, Sporozoa. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4129-69
OBSERVATIONS ON THE EFFECT OF THE RE-USE OF BROILER LITTER ON THE INCIDENCE OF MAREK'S DISEASE. (ABSTRACT).
G W Chaloupka R W Lloyd J F Gordy L M Greene
Poultry Sci 47(5):1660
Sep 1968 47.8 AM33P
Avian lymphomatosis, Bedding (livestock), Disease transmission, Epidemiology, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association

4130-69
THE RELATION OF PROTEIN LEVEL OF ALFALFA MEALS TO THEIR VITAMIN K ACTIVITY. (ABSTRACT).
O W Charles E J Day
Poultry Sci 47(5):1660
Sep 1968 47.8 AM33P
Alfalfa meal, Animal nutrition, Anticoagulants, Chickens, Diet, Menadione, Proteins, Vitamin k. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4131-69
THE INFECTIOUS BURSAL AGENT AND PATHOLOGY OF THE DISEASE. (ABSTRACT).
Y Cho S A Edgar
Poultry Sci 47(5):1661
Sep 1968 47.8 AM33P
Chickens, Infectious bursal agent, Poultry diseases, Symptomatology. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4132-69
BIOCHEMICAL RESEARCH ON HOG CHOLERA. BEHAVIOR OF SOME ENZYMATIC ACTIVITIES IN THE SERUM. (IT)
M Compagnucci F Martone
Acta Med Vet 13(5/6,SEP-DEC):267-302 REF
1967 41.8 AC84
Biochemistry, Enzymes, Hog cholera, Livestock diseases, Serum, Swine. English and french summaries.

4133-69
INVESTIGATION OF SOME ENZYMATIC ACTIVITIES (GOT, GPT, ALDOLASE, LDH, LDP, SDH) IN THE LIQUID AMNIO-ALLANTOIDS OF HEALTHY CHICK EMBRYOS OR THOSE INFECTED WITH NEWCASTLE DISEASE VIRUS. (IT)
M Compagnucci E Biondi A Vaccaro
Acta Med Vet 13(5/6,SEP-DEC):303-319 REF
1967 41.8 AC84
Amniotic fluid, Chick embryos, Enzymes, Newcastle disease, Poultry diseases, Virus diseases (animals). English and French summaries.

4134-69
THE INTERACTION OF A NONPATHOGENIC MYCOPLASMA SP. (TU) WITH MYCOPLASMA GALLISEPTICUM, AND NEWCASTLE DISEASE VIRUS IN THE AVIAN RESPIRATORY TRACT. (ABSTRACT).
R E Corstvet F Richter N Matzer
Poultry Sci 47(5):1663
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Mycoplasma, Mycoplasma gallisepticum, Newcastle disease virus, Poultry diseases, Respiratory system, Virus diseases (animals). Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4135-69
AFLATOXIN STUDIES WITH WHITE ROCK CHICKENS. (ABSTRACT).
G J Cottier C H Moore U L Diener N D Davis
Poultry Sci 47(5):1663
Sep 1968 47.8 AM33P
Aflatoxin, Animal nutrition, Animal physiology, Chickens, Diet. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4136-69
THE PATHOLOGY OF AVIAN OSTEODYSTROPHY. (ABSTRACT).
R R Dahlgren
Poultry Sci 47(5):1665
Sep 1968 47.8 AM33P
Bone diseases, Lesions, Osteodystrophy, Poultry diseases, Symptomatology. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4137-69
A CASE OF BILATERAL POLYCYSTIC KIDNEYS IN A CAT. (IT)
S Damiano
Acta Med Vet 13(5/6,SEP-DEC):349-361 REF
1967 41.8 AC84
Animal anatomy, Animal diseases, Animal histology, Cats, Cysts, Inflammation, Kidneys, Uremia. English and French summaries.

4138-69
CHRONIC FOLLICULAR HYPERTROPHIC-HYPERPLASTIC GASTRITIS IN A DOG. (IT)
S Damiano
Acta Med Vet 13(5/6,SEP-DEC):363-382 REF
1967 41.8 AC84
Animal diseases, Dogs, Gastritis, Gastrointestinal diseases, Uremia. English and French summaries.

4139-69
EVALUATION OF VARIOUS BIRD-RESISTANT AND NON-RESISTANT VARIETIES OF GRAIN SORGHUM FOR USE IN BROILER DIETS.
B L Damron G M Prine R H Harms
Poultry Sci 47(5):1648-1650
Sep 1968 47.8 AM33P
Animal nutrition, Birds, Chickens, Crop varieties, Diet, Immunity, Sorghum.

4140-69
EFFECT OF ENERGY-PROTEIN BALANCE, ENERGY INTAKE AND METHIONINE ON GROWTH AND BODY COMPOSITION OF DUCKLINGS. (ABSTRACT).
W F Dean
Poultry Sci 47(5):1665-1666
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Ducklings, Energy, Methionine, Proteins. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4141-69
HYGIENE AND ANIMAL DISEASES IN DEUX-SEVRES (REGION OF COULONGES-SUR-L'AUTIZE). (FR)
J-M J Debenest
Alfort Ecole Nat Vet These (33):62P MAP REF
1968 41.2 AL23
Actinomycosis, Agriculture, Animal diseases, Animal nutrition, Cattle, Climate, Environment, Hygiene, Livestock, Livestock diseases, Parasitism, Population. Many other diseases of cattle are briefly discussed.

4142-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE DIETHYLSTILBESTROL.
R E Duggan
Fed Regist 34(73):6625
17 Apr 1969 L1.451
Animal nutrition, Cattle, Diethylstilbestrol, Food additives, Regulations.

4143-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVES.
R E Duggan
Fed Regist 34(77):6806
23 Apr 1969 L1.451
Bacitracin methylenedisalicylic acid, Chickens, Coccidiosis, Drugs, Feed, Food additives, Growth factors, Nitro-4-hydroxyphenylarsonic acid, 3-, Poultry diseases, Regulations.

4144-69
NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE NITRODAN.
R E Duggan
Fed Regist 34(66):6259
08 Apr 1969 L1.451
Ancylostoma caninum, Dogs, Food additives, Nematodes, Nitrodan, Regulations, Toxocara canis.

4145-69
FACTORS RELATED TO IMMUNITY OF CHICKENS TO COCCIDIOSIS. (ABSTRACT).
S A Edgar C Flanagan K F Tam D Bond
Poultry Sci 47(5):1668
Sep 1968 47.8 AM33P
Animal breeding, Animal physiology, Coccidiosis, Eimeria, Immunity, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4146-69
CALF FATTENING TRIALS WITH ORAL ADMINISTRATION OF ABDELIN ACID, AUREOMYCIN AND CHLORAMPHENICOL, UNDER CONTROLLED ENVIRONMENTAL CONDITIONS. (GE)
R J Eggenhofer
Munich Univ Tierarztl Fak(inaug.-diss) (53):120P REF
1967 41.2 M9222
Abdelin acid, Animal nutrition, Calves, Chloramphenicol, Chlortetracycline, Fattening. English summary.

4147-69
STUDIES ON ACUTE MAREK'S DISEASE. 9. RESISTANCE TO MD BY INOCULATION WITH THE GA ISOLATE.
C S Eidson K W Washburn S C Schmittle
Poultry Sci 47(5):1646-1648
Sep 1968 47.8 AM33P
Avian lymphomatosis, Immunity, Lesions, Mortality, Poultry diseases, Virus diseases (animals).

4148-69
DISINFECTION IN PARASITOSES. (GE)
K Enigk P Hilbrich
Deut Tierarztl Wochensch 75(19):488-492 REF
01 Oct 1968 41.8 D482
Antiseptics, Ascaris, Carbon disulfide, Coccidiosis, Lipids, Livestock diseases, Parasitism, Stables, Veterinary medicine, Waxes. English summary.

4149-69
THE AMINO ACID DEFICIENCIES OF BLOOD MEAL FOR THE CHICK.
H Fisher
Poultry Sci 47(5):1478-1481
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Blood meal, Chicks, Deficiency diseases, Proteins.

4150-69
ALLERGY TESTS AND FALSE REACTIONS IN THE PREVENTION OF BOVINE TUBERCULOSIS. (IT)
P Galati S Damiano A Zacchi
Acta Med Vet 13(5/6,SEP-DEC):425-433
1967 41.8 AC84
Allergies, Cattle, Diagnosis, Tuberculin test. English, French and German summaries.

4151-69
EFFECT OF METHIONINE ON A GROWTH DEPRESSION INDUCED BY SUPPLEMENTING A CORN-SOYBEAN MEAL DIET WITH LYSINE.
E E Gardiner E W Agudu
Poultry Sci 47(5):1631-1632
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Diet, Food additives, Lysine, Methionine, Soybean meal.

4152-69
KALE ANAEMIA IN RUMINANTS. I. SURVEY OF THE LITERATURE AND EXPERIMENTAL INDUCTION OF KALE ANAEMIA IN LACTATING COWS.
C A Grant P Holtenius G Jonsson C B Thorell
Acta Vet Scand 9(2):126-140 REF
1968 41.8 AC87
Anemia, Cattle, Feeding, Hematologic diseases, Kale, Lactation, Livestock diseases, Ruminants. German and Swedish summaries.

4153-69
PROTEINS BEFORE AND AFTER INOCULATION WITH RSV. (ABSTRACT).
N R Gyles J E Turner C J Brown
Poultry Sci 47(5):1677
Sep 1968 47.8 AM33P
Neoplasms, Poultry diseases, Proteins, Rous sarcoma virus, Virus diseases (animals). Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4154-69
A MENINGIOMA IN A CAT ASSOCIATED WITH EROSION OF THE SKULL.
P H Hague M J Burridge
Vet Rec 84(9):217-219 REF
01 Mar 1969 41.8 V641
Animal diseases, Cats, Etiology, Neoplasms, Skull.

4155-69
DIETARY MAGNESIUM REQUIREMENT OF THE LAYING HEN. (ABSTRACT).
R N Hajj J L Sell
Poultry Sci 47(5):1677
Sep 1968 47.8 AM33P
Animal histology, Animal nutrition, Chickens, Diet, Dosage, Magnesium. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4156-69
SULFUR AMINO ACID REQUIREMENT OF LAYING HENS. (ABSTRACT).
R H Harms B L Damron
Poultry Sci 47(5):1678
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Chickens, Diet, Eggs, Methionine, Productivity, Sulfur. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4157-69
EPIZOOTIOLOGY OF INFLUENZA IN TURKEYS. (ABSTRACT).
P J Homme B C Easterday
Poultry Sci 47(5):1682
Sep 1968 47.8 AM33P
Epizootic diseases, Influenza, Poultry diseases, Turkeys, Virus diseases (animals). Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4158-69
THE EFFICACY OF TRANS AND CIS VITAMIN A. (ABSTRACT).
F G Hooper J R Couch C R Creger
Poultry Sci 47(5):1682
47.8 AM33P
Animal nutrition, Chicks, Deficiency diseases, Isomers, Poultry diseases, Vitamin a. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4159-69
ANIMAL FOOD COMPOSITION. PATENT 3,428,457.
H D Hutchinson
Us Patent Office Offic Gaz 859(3):889
18 Feb 1969 156.65 OF2
Anemia, Animal nutrition, Deficiency diseases, Food, Iron, Patents, Swine.

4160-69
ORAL THERAPY OF DIABETES MELLITUS IN DOGS WITH GLYCODIAZIN. (GE
K Jeddicke
Deut Tierarztl Wochensch 75(19):482-483
01 Oct 1968 41.8 D482
Animal diseases, Diabetes, Dogs, Drug therapy, Erythromycin, Pancreas. English summary.

4161-69
RELATIONSHIP OF BIOTIN TO LEG WEAKNESS IN TURKEYS. (ABSTRACT).
L S Jensen R Martinson
Poultry Sci 47(5):1684-1685
Sep 1968 47.8 AM33P
Animal nutrition, Biotin, Deficiency diseases, Diet, Legs, Poultry diseases, Turkeys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4162-69
ACTIVITY OF DECOQUINATE AGAINST FIELD STRAINS OF CHICKEN COCCIDIA. (ABSTRACT).
C A Johnson H E Plank M A Darling
Poultry Sci 47(5):1685
Sep 1968 47.8 AM33P
Chickens, Coccidiosis, Decoquinate, Eimeria, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4163-69
FLOOR PEN EVALUATIONS OF THE ANTICOCCIDIAL EFFECTS OF DECOQUINATE ON SINGLE AND MIXED SPECIES OF CHICKEN COCCIDIA. (ABSTRACT).
C A Johnson H Plank R Smeltzer P Halstead
Poultry Sci 47(5):1685
Sep 1968 47.8 AM33P
Coccidiosis, Decoquinate, Drug therapy, Eimeria, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4164-69
C -TYPE VIRAL PARTICLES IN PLASMA OF CATS WITH FELINE LEUKEMIA.
T G Kawakawi G H Theilen D L Dungworth R J Munn S G Beall
Science 158(3804):1049-1050 REF
24 Nov 1967 470 SC12
Blood plasma, Cats, Electron microscopy, Leukemia, Virology, Virus diseases (animals).

4165-69
PATHOGENESIS OF INFECTIOUS SYNOVITIS IN GNOTOBIOTIC CHICKENS. (ABSTRACT).
K M Kerr C H Bridges
Poultry Sci 47(5):1687
Sep 1968 47.8 AM33P
Chickens, Germ-free life, Infectious synovitis, Lesions, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4166-69
POLYVALENT PARAINFLUENZA CF ANTIGEN FOR SERODIAGNOSIS.
H J van K Kok-Doorschodt F M de Ronde-Verloop R Gispen
Arch Gesamte Virusforsch 24(4):312-318
Sep 1968 448.3 AR23
Antigens, Parainfluenza, Serodiagnosis, Virus diseases (animals).

4167-69
HEMAGGLUTINATION INHIBITING ANTIBODIES TO ARBOVIRUSES IN THE POPU-

LATION OF HAJDU-BIHAR DISTRICT, HUNGARY.
M Koller M Gresikova Gy Berencsy M Schablik
Folia Parasitol 16(1):75-79 MAP
1969 436.8 C33
Antibodies, Arboviruses, Hemagglutination-inhibition test, Human diseases, Insect vectors, Rabbits, Tahyna virus, West nile virus.

4168-69
ISOLATION OF THE TICK-BORNE ENCEPHALITIS VIRUS FROM THE SQUIRREL SCIURUS VULGARIS.
J M Kolman
Folia Parasitol 16(1:80
1969 436.8 C33
Insect vectors, Russian spring-summer encephalitis, Serological tests, Squirrels, Virus diseases (animals).

4169-69
EFFECT OF NITROFURAZONE AND FURAZOLIDONE ON REPRODUCTION IN CHICKENS.
P A Kondra W Guenter
Poultry Sci 47(5):1642-1643
Sep 1968 47.8 AM33P
Chickens, Drug therapy, Eggs, Furazolidone, Nitrofurazone, Productivity, Reproduction.

4170-69
SEROLOGICAL TYPING OF MYCOBACTERIA FOR TRACING POSSIBLE SOURCES OF AVIAN MYCOBACTERIAL INFECTIONS IN MAN.
M Kubin E Matuskova
World Health Organ Bull 39(5):657-662 MAP REF
1968 449.9 W892B
Agglutination test, Animal vectors, Bacterial diseases (animals), Human diseases, Mycobacterium avium, Poultry, Serological tests, Tuberculosis. French summary.

4171-69
CONTROL OF MYCOPLASMA MELEAGRIDIS INFECTION IN TURKEYS. (ABSTRACT).
M C Kumar J A Newman S H Kleven B S Pomeroy
Poultry Sci 47(5):1688
Sep 1968 47.8 AM33P
Air saculitis, Bacterial diseases (animals), Dipping, Disease control, Disease transmission, Eggs, Mycoplasma meleagridis, Poultry diseases, Turkeys, Tylosin tartrate. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4172-69
TOWARDS THE ERADICATION OP BOVINE TUBERCULOSIS. (GE)
J-J E P F Le Gouis
Alfort Ecole Nat Vet These (90):92P REF
1968 41.2 AL23
Bacterial diseases (animals), Bacteriology, Cattle, Diagnosis, Livestock diseases, Serological tests, Symptomatology, Tuberculin, Tuberculosis.

4173-69
EMBRYOSTAT (OXYTETRACYCLINE POWDER). DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(71):6494
15 Apr 1969 L1.451
Cattle, Dosage, Drug therapy, Drugs, Livestock diseases, Metritis, Oxytetracycline, Regulations, Veterinary medicine.

4174-69
NICARBAZIN. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(71):6495
15 Apr 1969 L1.451
Chickens, Coccidiosis, Dosage, Drug therapy, Drugs, Nicarbazin, Poultry diseases, Regulations, Veterinary medicine.

4175-69
SODIUM PROPIONATE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(66):6260-6261
08 Apr 1969 L1.451
Cattle, Drugs, Ketosis, Livestock diseases, Sodium propionate, Veterinary medicine.

4176-69
SPOHN'S UDDER AID. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(34,PT 1):2366
19 Feb 1969 L1.451
Dairy cattle, Dosage, Drugs, Livestock diseases, Udders, Veterinary medicine.

4177-69
DEXTRAN 6 PERCENT W/V IN SALINE (PLASMA VOLUME EXPANDER). DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(66):6260
08 Apr 1969 L1.451
Animals, Blood plasma, Dextrans, Dosage, Drugs, Veterinary medicine.

4178-69
SULFISOXAZOLE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(34,PT 1):2367
19 Feb 1969 L1.451
Bacterial diseases (animals), Drugs, Sulfisoxazole, Veterinary medicine.

4179-69
NYSTATIN FOR FEED FORMULATION. DRUGS FOR VETERINARY USE. DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(66):6259-6260
08 Apr 1969 L1.451
Dosage, Drugs, Formulations, Nystatin, Veterinary medicine.

4180-69
SULFADIMETHOXINE INJECTABLE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(66):6261
08 Apr 1969 L1.451
Bacterial diseases (animals), Cats, Dogs, Drugs, Horses, Sulfadimethoxine, Swine, Veterinary medicine.

4181-69
PROGRESS OF THE SOVIET VIROLOGY IN FOOT-AND-MOUTH DISEASE STUDIES. (RUS)
N V Likhachev
Sel'skokhozyast Biol 2(6):814-823
1967 S13.S44
Complement fixation, Diagnosis, Foot-and-mouth disease, Immunization, Serological tests, Tissue culture, Vaccines, Virology, Virus diseases (animals). English summary.

4182-69
DISSEMINATED GEOTRICHOSIS IN A DOG.
S D Lincoln J L Adcock
Pathol Vet 5(3):282-289 REF
1968 41.8 P27
Animal histology, Dogs, Fungus diseases (animals), Geotrichum candidum. German summary.

4183-69
AN IMPROVEMENT OF THE INDIRECT FLUORESCENT ANTIBODY TEST FOR THE DIAGNOSIS OF INTRAERYTHROCYTIC PARASITIC INFECTIONS. (GE
K F Lohr J P J Ross
Z Tropenmed Parasitol 19(4):427-430 REF
Dec 1968 448.8 Z37
Anaplasma, Animal diseases, Antigens, Babesia, Diagnosis, Disease transmission, Erythrocytes, Fluorescent antibody technic, Parasitism, Serum. English summary.

4184-69
GLYCEMIA IN DOGS. (SP)
R D Lori
Veterinaria (corrientes) 1(3):17-24 REF
1965 41.8 V6465
Animal diseases, Dogs, Glycemia, Pentobarbital sodium. English and French summaries.

4185-69
SAFETY AND COMPATABILITY OF SULFADIMETHOXINE POTENTIATED MIXTURE (RO 5-0013), A NEW BROAD SPECTRUM COCCIDIOSTAT-ANTIBACTERIAL, IN CHICKENS. (ABSTRACT).
W L Marusich E Ogrinz M Brand M Mitrovic
Poultry Sci 47(5):1692-1693
Sep 1968 47.8 AM33P
Accident prevention, Bacterial diseases (animals), Bactericides, Chickens, Coccidiosis, Drug therapy, Poultry diseases, Pyrimidines, Sulfadimethoxine, Sulfanilamide. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4186-69
OVARIAN CYSTS IN CATTLE AND ITS THERAPY WITH GESTAFORTIN AND PROLAN PREPARATIONS. (GE)
F Marx
Hanover Tierarztl Hochsch Inang Diss (64):48P REF
1967 41.2 H198
Cattle, Drug therapy, Hormones, Livestock diseases, Ovarian cysts, Pregnancy, Prolan.

4187-69
GROWTH DEPRESSING EFFECT OF EXCESS LEUCINE IN RELATION TO THE AMINO ACID COMPOSITION OF THE DIET. (ABSTRACT).
D Mathieu H M Scott
Poultry Sci 47(5):1694
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Animal physiology, Chickens, Diet, Leucine. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4188-69
PURIFICATION, ULTRASTRUCTURE, AND COMPOSITION OF AXIAL FILAMENTS FROM LEPTOSPIRA.
R K Mauman S C Holt C D Cox
J Bacteriol 98(1):264-280 REF
Apr 1969 448.3 J82
Biochemistry, Cytology, Electron microscopy, Leptospira, Morphology, Ultrastructure.

4189-69
TOXOPLASMA INFECTION: SOME FACTORS POSSIBLY CONTRIBUTING TO THE MECHANISM OF TOXOPLASMIC INFECTION. (SP)
H F Mayer
Veterinaria (corrientes) 1(3):33-40
1965 41.8 V6465
Animal diseases, Mice, Toxoplasma gondii, Toxoplasmosis. English and French summaries.

4190-69
EFFECT OF PHYTATE ON THE APPARENT CALCIUM REQUIREMENTS OF CHICKS. (ABSTRACT).
J J McGillivary T S Nelson
Poultry Sci 47(5):1695

Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Calcium, Chelation, Chicks, Diet, Phytates. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4191-69
THE EPIZOOTIOLOGICAL IMPORTANCE OF FOOT-AND-MOUTH DISEASE CARRIERS. II. THE CARRIER STATUS OF CATTLE EXPOSED TO FOOT-AND-MOUTH DISEASE FOLLOWING VACCINATION WITH AN OIL ADJUVANT INACTIVATED VIRUS VACCINE.
J W McVicar P Sutmoller
Arch Gesamte Virusforsch 26(3):217-224 REF
1969 448.3 AR23
Animal vectors, Cattle, Foot-and-mouth disease, Immunization, Livestock diseases, Vaccines, Virus diseases (animals).

4192-69
THE LINOLEIC ACID REQUIREMENT OF THE HEN FOR REPRODUCTION. (ABSTRACT).
H Menge
Poultry Sci 47(5):1695
Sep 1968 47.8 AM33P
Animal nutrition, Chickens, Deficiency diseases, Linoleic acid, Poultry diseases, Reproduction. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4193-69
EFFECTS OF CALCIUM LEVELS IN PULLET DEVELOPERS. (ABSTRACT).
G B Meyer S W Babcock M L Sunde
Poultry Sci 47(5):1695
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Calcium, Chickens, Diet. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4194-69
THE MYCOTIC ABORTIONS IN THE COW. (FR)
P A Michelin
Alfort Ecole Nat Vet These (23):58P REF
1968 41.2 AL23
Abortion, Cattle, Diagnosis, Epidemiology, Fungus diseases (animals), Livestock diseases, Mycology, Symptomatology.

4195-69
INVESTIGATIONS ON COCCIDIA IN ZOO RUMINANTS. (GE)
K Minck
Munich Univ Tierarztl Fak(inaug.-diss) (10):47P REF
1968 41.2 M9222
Bacterial diseases (animals), Coccidiosis, Eimeria, Excretion, Feces, Ruminants, Zoo animals. English summary.

4196-69
ANTICOCCIDIAL ACTIVITY OF SULFADIMETHOXINE POTENTIATED MIXTURE (RO 5-0013) IN CHICKENS.
M Mitrovic E G Schildknecht G Fusiek
Poultry Sci 47(5):1697
Sep 1968 47.8 AM33P
Chickens, Coccidiosis, Dosage, Drug therapy, Eimeria, Poultry diseases, Sulfadimethoxine, Sulfanilamide. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4197-69
ANTIBACTERIAL ACTIVITY OF SULFADIMETHOXINE POTENTIATED MIXTURE (RO 5-0013). (ABSTRACT).
M Mitrovic G Fusiek E G Schildknecht
Poultry Sci 47(5):1697
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Bactericides, Dosage, Drug therapy, Poultry diseases, Sulfadimethoxine, Sulfanilamide. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4198-69
THE USE OF SEROLOGIC METHODS FOR THE CONTROL OF MYCOPLASMA MELEAGRIDIS IN TURKEYS. (ABSTRACT).
Y S Mohamed E H Bohl
Poultry Sci 47(5):1697-1698
Sep 1968 47.8 AM33P
Agglutination test, Antibodies, Dipping, Mycoplasma meleagridis, Poultry diseases, Serological tests, Turkey eggs, Turkeys, Tylosin. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4199-69
THE THREONINE REQUIREMENT OF THE PULLET AND ADULT HEN. (ABSTRACT).
E T Moran J D Summers
Poultry Sci 47(5):1698
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chickens, Diet, Threonine. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4200-69
CONTRIBUTION TO THE STUDY OF THE TREATMENT OF BOVINE KETOSIS. (FR)
D M Moreau
Alfort Ecole Nat Vet These (13):47P REF
1968 41.2 AL23
Adrenal cortex hormones, Biochemistry, Cattle, Coenzyme a, Drug therapy, Insulin, Ketosis, Livestock diseases, Symptomatology.

4201-69
EPIDEMIOLOGICAL ANALYSIS OF DISEASE REPORTS OF THE SOUTHERN CONFERENCE ON AVIAN DISEASES. (ABSTRACT).
C D Murphy
Poultry Sci 47(5):1700
Sep 1968 47.8 AM33P
Conferences, Diagnosis, Epidemiology, Poultry diseases, Reports. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4202-69
A SURVEY OF BRUCELLA INFECTION OF CATTLE IN KENYA. A COMPARISON OF FOUR SEROLOGICAL TESTS FOR THE DIAGNOSIS OF INFECTION.
L K Nagy A O Sorheim
Vet Rec 84(3):65-67
18 Jan 1969 41.8 V641
Brucellosis, Cattle, Diagnosis, Livestock diseases, Serological tests, Surveys.

4203-69
DIETARY AMINO ACIDS AND MUSCULAR DYSTROPHY. (ABSTRACT).
S P Netke J G Velu H M Scott
Poultry Sci 47(5):1701
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Chickens, Diet, Muscular dystrophy, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4204-69
EFFECT OF ASCORBIC ACID WITHDRAWAL ON INTERIOR EGG QUALITY. (ABSTRACT).
C F Nockels R B Herrick J V Shutze
Poultry Sci 47(5):1702
Sep 1968 47.8 AM33P
Animal nutrition, Ascorbic acid, Chickens, Diet, Eggs, Vitamin e. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4205-69
STUDIES ON THE SODIUM REQUIREMENTS OF CHICKS. (ABSTRACT).
H Nott G F Combs
Poultry Sci 47(5):1702
Sep 1968 47.8 AM33P
Animal nutrition, Chickens, Diet, Sodium, Sodium chloride. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4206-69
AMINO ACIDS VERSUS PROTEIN IN LOW PROTEIN CAGE-LAYER DIETS. ABSTRACT).
E J Novacek C W Carlson
Poultry Sci 47(5):1702-1703
Sep 1968 47.8 AM33P
Amino acids, Animal cages, Animal nutrition, Chickens, Deficiency diseases, Diet, Poultry diseases, Proteins. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4207-69
AMINO ACIDS AND ISONITROGENOUS TURKEY STARTER DIETS. (ABSTRACT).
E J Novacek C W Carlson
Poultry Sci 47(5):1703
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Animal physiology, Deficiency diseases, Diet, Nitrogen, Poultry diseases, Turkeys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4208-69
EPITHELIAL CHANGES IN PORCINE EXUDATIVE EPIDERMITIS; THE LIGHT-MICROSCOPICAL PICTURE.
A L Obel
Pathol Vet 5(3):253-269 REF
1968 41.8 P27
Baby pigs, Epithelium, Exudative epidermitis, Livestock diseases, Microscopy. German summary.

4209-69
A CONTRIBUTION TO THE PROPHYLACTIC USE OF GAMMATONIN IN CALVES. (GE)
J Oetjen
Hanover Tierarztl Hochsch Inang Diss (38):35P REF
1967 41.2 H198
Biuret test, Calves, Electrophoresis, Gamma globulins, Injections, Livestock diseases.

4210-69
COBALT AND VITAMIN C FOR CHICKS. (ABSTRACT).
J D Olson E W Kienholz
Poultry Sci 47(5):1704
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Ascorbic acid, Chickens, Cobalt, Diet, Food additives, Proteins. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4211-69
OBSERVATIONS ON SEPTICEMIA OF CATTLE CAUSED BY A HAEMOPHILUS-LIKE ORGANISM.
R J Panciera R R Dahlgren H B Rinker
Pathol Vet 5(3):212-226
1968 41.8 P27
Animal histology, Cattle, Haemophilus, Livestock diseases, Microbiology, Septicemia, Symptomatology. German summary.

4212-69
THE EFFECT OF ADDED ENERGY ON INDUCED MYCOPLASMA GALLISEPTICUM INFECTION IN BROILERS. (ABSTRACT).
R T Parkhurst T H Vardaman J G Griffin
Poultry Sci 47(5):1706
Sep 1968 47.8 AM33P
Animal nutrition, Bacterial diseases (animals), Chickens, Diet, Energy, Mycoplasma gallisepticum, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4213-69
LYMPHOEPITHELIAL TISSUES OF THE INTESTINE AND DIFFERENTIATION OF ANTIBODY PRODUCTION.
D Y E Perey Cooper R A Good

Science 161(3838):265-266 REF
19 Jul 1968 470 SC12
Animal physiology, Antibodies, Brucella abortus, Epithelium, Intestines, Liver, Lymph nodes, Rabbits, Tissues.

4214-69
FIELD SIGNIFICANCE OF MYCOPLASMA MELEAGRIDIS INFECTION. (ABSTRACT).
I L Peterson
Poultry Sci 47(5):1708-1709
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Chickens, Dipping, Eggs, Mycoplasma meleagridis, Poultry diseases, Tylosin. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4215-69
PATHOGENESIS OF AND RECOVERY FROM RESPIRATORY SYNCYTIAL AND INFLUENZA INFECTIONS IN FERRETS.
C A Pinto R F Haff R C Stewart
Arch Gesamte Virusforsch 26(3):225-237 REF
1969 448.3 AR23
Ferrets, Influenza, Pathogenesis, Respiratory diseases, Respiratory syncytial virus, Virology, Virus diseases (animals).

4216-69
BACTERIAL CONTAMINATION AND PERFORMANCE OF LEGHORN BREEDERS ON SLOPING WIRE VERSUS LITTER FLOORS. (ABSTRACT).
C L Quarles G O Bressler R F Gentry
Poultry Sci 47(5):1709
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Bedding (livestock), Chickens, Eggs, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4217-69
THE ANIMAL ADENOVIRUSES. (FR)
P M Quinart
Alfort Ecole Nat Vet These (12):70P REF
1968 41.2 AL23
Adenoviruses, Birds, Cattle, Humans, Mice, Monkeys, Swine, Virology, Virus diseases (animals).

4218-69
BUQUINOLATE-A REVIEW.
T V Raines
Poultry Sci 47(5):1425-1432 REF
Sep 1968 47.8 AM33P
Buquinolate, Chickens, Coccidiosis, Dosage, Drug therapy, Eimeria, Food additives, Poultry diseases, Testing.

4219-69
COTTONSEED MEAL, LYSINE, AND METHIONINE FOR LAYERS. (ABSTRACT).
R H Roberson D W Francis
Poultry Sci 47(5):1711
Sep 1968 47.8 AM33P
Animal nutrition, Chickens, Cottonseed meal, Eggs, Lysine, Methionine, Proteins, Soybean meal. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4220-69
USE OF CHICKS TO MEASURE AVAILABILITY OF IRON. (ABSTRACT).
T Roberts J W Boehne J C Fritz
Poultry Sci 47(5):1711
Sep 1968 47.8 AM33P
Animal nutrition, Chicks, Ethylenediaminetetraacetic acid, Iron. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4221-69
SPECIFICITY OF THE CHICK'S REQUIREMENT FOR CHOLINE. (ABSTRACT).
T Roberts J C Fritz
Poultry Sci 47(5):1711
Sep 1968 47.8 AM33P
Animal nutrition, Chicks, Choline, Diet, Methionine, Perosis, Poultry diseases. Abstract of paper presented at the 57th Annual meeting of the Poultry Science Association.

4222-69
FUMIGATION AND REUSE OF BROILER LITTER. (ABSTRACT).
E Ross
Poultry Sci 47(5):1711-1712
Sep 1968 47.8 AM33P
Animal physiology, Bacterial diseases (animals), Bedding (livestock), Chemical control (animal diseases), Chicks, Fumigation, Methyl bromide, Mortality, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4223-69
INFLUENCE ON EGG QUANTITY AND QUALITY WITH SORGHUM GRAIN DIETS SUPPLEMENTED WITH CORN OIL AND/OR FURAZOLIDONE. (ABSTRACT).
P E Sanford B S Rathore
Poultry Sci 47(5):1714
Sep 1968 47.8 AM33P
Animal nutrition, Corn oil, Diet, Eggs, Food additives, Furazolidone, Productivity, Sorghum. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4224-69
EFFECT OF MGA ON BODY WEIGHT, BODY FAT AND FATTY ACID COMPOSITION OF CHICKENS. (ABSTRACT).
N G Sauer D A Cramer J V Shutze
Poultry Sci 47(5):1715
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chickens, Fatty acids, Food additives, Melengestrol acetate. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4225-69
SHELL QUALITY EFFECT ON SALMONELLA PENETRATION. (ABSTRACT).
E A Sauter C F Petersen
Poultry Sci 47(5):1715
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Dipping, Eggs, Permeability, Poultry diseases, Salmonella. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4226-69
SPONTANEOUS TUMORS IN HOLTZMAN-SOURCE RATS OF VARIOUS AGES.
J L Schardein J E Fitzgerald D H Kaump
Pathol Vet 5(3):238-252 REF
1968 41.8 P27
Animal diseases, Neoplasms, Rats, Statistical analysis. German summary.

4227-69
EPIZOOTICS OF TRICHINOSIS IN PIGS AND ITS RELATION WITH ANTI-RAT PROCEDURES USING WARFARIN. (SP)
H Schenone J Carrasco F Villarroel R Chinchon J Urriola
Bol Chileno Parasitol 22(4,OCT-DEC):138-143 REF
1967 436.9 C43
Epidemiology, Epizootic diseases, Livestock diseases, Rats, Rodent control, Swine, Trichinella spiralis, Trichinosis, Warfarin. English summary.
It is suggested that using anti-coagulant rodenticides could be the origin of trichinosis epizootics in pigs.

4228-69
TRICHINELLA SPIRALIS INFECTION IN RATTUS NORVEGICUS FROM THE MUNICIPAL ABATTOIR OF SANTIAGO, CHILE. (SP)
H Schenone C Jacob A Rojas F Villarroel
Bol Chileno Parasitol 22(4,OCT-DEC):176
1967 436.9 C43
Animal diseases, Rats, Trichinella spiralis, Trichinosis. English summary.

4229-69
LIGHT AND ELECTRON MICROSCOPE INVESTIGATIONS ON THE FORMATION OF THE OOCYST WALL IN EIMERIA SPECIES (EIMERIA PERFORANS, E. STIEDAE, AND E. TENELLA). (GE)
E Scholtyseck A Rommel G Heller
Z Parasitenk 31(4):289-298
10 Mar 1969 442.8 Z33F
Cell wall, Cytology, Eimeria, Electron microscopy, Inclusion bodies. English abstract.

4230-69
EGG TRANSMISSION STUDIES OF TYPE II LEUKOSIS INFECTION (MAREK'S DISEASE).
M Sevoian
Poultry Sci 47(5):1644-1646
Sep 1968 47.8 AM33P
Avian lymphomatosis, Chick embryos, Disease transmission, Eggs, Poultry diseases, Virus diseases (animals).

4231-69
THE LEVELS OF TYPE II INFECTION (MAREK'S DISEASE) IN 8-WEEK-OLD CHICKENS PROCESSED AT DRESSING PLANTS. (ABSTRACT).
M Sevoian
Poultry Sci 47(5):1718
Sep 1968 47.8 AM33P
Avian lymphomatosis, Chickens, Food processing, Inspection (agricultural products), Poultry diseases, Virus diseases (animals). Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4232-69
HETEROLOGOUS IMMUNITY IN AVIAN HOSTS INFECTED WITH PLASMODIUM RELICTUM AND PLASMODIUM LOPHURAE.
A Shahidi J N Farmer
Folia Parasitol 16(1):41-55 REF
1969 436.8 C33
Antigens, Chickens, Immunization, Plasmodium.

4233-69
LYSINE REQUIREMENT OF THE GROWING CHICK. (ABSTRACT).
F R Shank G F Combs O P Thomas
Poultry Sci 47(5):1718
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Animal physiology, Biological assay, Chicks, Diet, Lysine, Proteins. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4234-69
IMBALANCED LYSINE FEEDS FOR STARTING OR GROWING CHICKS.
D H Sherwood C D Caskey J E Jones S B Smith M C Van Wormer
Poultry Sci 47(5):1719
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chicks, Diet, Feed, Lysine. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4235-69
ON THE STRUCTURE OF HORSE INFLUENZA VIRUS. A CONTRIBUTION TO THE ULTRASTRUCTURE OF INFLUENZA VIRUSES. (GE)
G Siegl J Pette H Mahnel
Arch Gesamte Virusforsch 24(4):299-311 REF
Sep 1968 448.3 AR23
Electron microscopy, Equine influenza viruses, Horses, Morphology, Ultrastructure, Virus diseases (animals). English abstract.

4236-69
THE NATURAL OCCURRENCE OF SURRA IN THE AFRICAN LONGHAIRED FOX. (IT)
R Sobrero
Veterinaria (milano) 17(2 MAR-APR):126-131
1968 41.8 V6499
Animal diseases, Biometry, Camels, Foxes, Insect vectors, Protozoa, Surra, Tabanidae, Trypanosoma evansi, Trypanosomiasis.

4237-69
THE IMPORTANCE OF BRUCELLOSIS INFECTION IN REGARD TO HUMAN HEALTH. (IT)
G P Sonda
Veterinaria (milano) 17(2 MAR-APR):108-111
1968 41.8 V6499
Bacterial diseases (animals), Brucella abortus, Brucella melitensis, Brucella suis, Brucellosis, Dairy products, Human diseases, Livestock diseases.

4238-69
EFFECT OF AN IODOPHOR ON SHELF LIFE OF POULTRY. (ABSTRACT).
J V Spencer E M Streeter M H George
Poultry Sci 47(5):1721
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Carcasses, Chlorine, Iodophors, Poultry diseases, Salmonella typhimurium, Storage diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4239-69
ELECTRON MICROSCOPY AS AN AID TO THE RAPID IDENTIFICATION OF ANIMAL VIRUSES.
P B Spradbrow J Francis
Vet Rec 84(10):244-246 REF
08 Mar 1969 41.8 V641
Cells, Diagnosis, Electron microscopy, Phosphotungistic acid, Virology, Virus diseases (animals).

4240-69
OXIDATION OF D-MALIC AND BETA-ALKYL-MALIC ACIDS BY WILD-TYPE AND MUTANT STRAINS OF SALMONELLA TYPHIMURIUM AND BY AEROBACTER AEROGENES.
J R Stern R W O'Brien
J Bacteriol 98(1):147-151
Apr 1969 448.3 J82
Aerobacter aerogenes, Biochemistry, Malic acid, Metabolism, Mutation, Salmonella typhimurium.

4241-69
APPETITE SUPPRESSION IN HAMSTERS AND SWINE FED A DITHIOCARBAMOYLHYDRAZINE (ICI 33828).
F W Stratman D L Garbers N L First
J Anim Sci 28(3):359-363 REF
Mar 1969 49 J82
Animal physiology, Dithiocarbamoylhydrazine, Hamsters, Swine.

4242-69
AVIAN VIRUS-INDUCED TUMORS.
E L Stubbs A M Wallbank
Poultry Sci JM(5) 1448-1452 REF
Sep 1968 47.8 AM33P
Cancer, Chickens, Neoplasms, Poultry diseases, Tissue culture, Virology, Virus diseases (animals).

4243-69
A CONTRIBUTION TO THE SALMONELLOSIS OF CATTLE AND ITS THERAPY. (GE)
W Stute J Oetjen
Tierarztl Umsch 23(9):446-448 REF
01 Sep 1968 41.8 T445
Bacterial diseases (animals), Cattle, Chloramphenicol, Drug therapy, Furazolidone, Livestock diseases, Salmonella dublin, Salmonellosis.

4244-69
EFFECTS OF EXCESS AMINO ACIDS ON GROWTH OF CHICKS FED AMINO ACID DEFICIENT DIETS. (ABSTRACT).
M Sugahara D H Baker H M Scott
Poultry Sci 47(5):1723-1724
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Animal physiology, Chicks, Diet. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4245-69
THERAPEUTIC EFFICACY OF RONIDAZOLE IN WATER AGAINST HISTOMONIASIS AND EFFECT OF CONTINUOUS FEED LEVELS ON GROWTH IN TURKEYS. (ABSTRACT).
T W Sullivan O D Grace R J Mitchell
Poultry Sci 47(5):1724
Sep 1968 47.8 AM33P
Animal physiology, Blackhead, Dosage, Drug therapy, Feed, Heterakis gallinae, Histomonas meleagridis, Poultry diseases, Ronidazole, Turkeys, Water. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4246-69
THE INFLUENCE OF HIGH LEVEL OF L-PHENYLALANINE ON CHICKS HATCHED FROM PULLETS FED SAME LEVEL OF L-PHENYLALANINE. (ABSTRACT).
H S Tamimie
Poultry Sci 47(5):1726
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chickens, Diet, Food additives, Phenylalanine. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4247-69
OPTIMUM DESTRUCTION OF RACHITOGENIC ACTIVITY OF C-1 PROTEIN. (ABSTRACT).
O J Thompson C W Carlson I S Palmer
Poultry Sci 47(5):1727
Sep 1968 47.8 AM33P
Animal nutrition, Chickens, Deficiency diseases, Diet, Poultry diseases, Proteins, Rickets. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4248-69
DETERMINATION OF THE VIRULENCE OF THE MYCOBACTERIUM TUBERCULOSIS BY THE FLUORESCENCE METHOD. (SP)
L B Toranzos H E Laffont V G Aucar J A Benitez
Veterinaria (corrientes) 1(3):67-73
1965 41.8 V6465
Bacterial diseases (animals), Fluorescence, Guinea pigs, Mycobacterium tuberculosis, Virulence. English summaries.

4249-69
LOW LYSINE DIETS FOR REARING REPLACEMENT PULLETS. (ABSTRACT).
J L Trammell C R Creger J R Couch
Poultry Sci 47(5):1727-1728
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chickens, Diet, Lysine. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4250-69
EFFECT OF PROLONGED INFECTION BY INTESTINAL COCCIDIA UPON ZINC-65 AND OLEIC ACID ABSORPTION IN BROILERS. (ABSTRACT).
D E Turk J F Stephens
Poultry Sci 47(5):1728
Sep 1968 47.8 AM33P
Animal nutrition, Chickens, Coccidiosis, Eimeria acervulina, Eimeria necatrix, Oleic acid, Poultry diseases, Zinc isotopes. Abstract of paper presented at the 57th Annual Meeting the Poultry Science Association.

4251-69
MID SMALL INTESTINAL PARASITISM AND ABSORPTION OF AMINO ACIDS AND PROTEIN. (ABSTRACT).
D E Turk J F Stephens
Poultry Sci 47(5):1728
Sep 1968 47.8 AM33P
Absorption, Amino acids, Eimeria necatrix, Intestines, Parasitism, Poultry diseases, Proteins, Radioactivity. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4252-69
INVESTIGATIONS ON COTTON WILT IN WESTERN TURKEY. (TU)
Z Turkmenoglu S Kaya
Bitki Koruma Bulteni 8(3):168-171
1968 464.8 B542
Cotton, Wilt. English summary.

4253-69
ROLE OF THE CUTICLE IN EGG SPOILAGE. (ABSTRACT).
D V Vadehra R C Baker
Poultry Sci 47(5):1728-1729
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Cuticle, Eggs, Food spoilage, Immunity, Poultry diseases, Pseudomonas aeruginosa. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4254-69
INVESTIGATIONS ON THE OCCURRENCE OF BOVINE LEUKOSIS IN THE COUNTY OF OLDENBURG, INCLUDING THE CITY OF DELMENHORST AND THE METROPOLITAN AREA OF OLDENBURG. (GE)
W Vogel
Hanover Tierarztl Hochsch Inang Diss (45):40P REF
1967 41.2 H198
Cattle, Epidemiology, Leukosis, Livestock diseases.

4255-69
ESSENTIAL AMINO ACID LEVELS FOR STARTING POULTS. (ABSTRACT).
Re Warnick J O Anderson
Poultry Sci 47(5):1731
Sep 1968 47.8 AM33P
Amino acids, Animal nutrition, Animal physiology, Chickens, Diet. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4256-69
HEMATOLOGY OF AN INHERITED ANEMIA IN THE DOMESTIC FOWL.
K W Washburn J R Smyth
Poultry Sci 47(5):1406-1411 REF
Sep 1968 47.8 AM33P
Anemia, Animal genetics, Chickens, Hematology, Hereditary diseases, Poultry diseases.

4257-69
EFFECT OF ENVIRONMENTAL TEMPERATURE ON IRON DEFICIENCY ANEMIA IN ATHENS-CANADIAN RANDOMBRED CHICKS.
K W Washburn T M Huston
Poultry Sci 47(5):1532-1535
Sep 1968 47.8 AM33P
Anemia, Animal nutrition, Chicks, Copper, Deficiency diseases, Environment, Erythrocytes, Iron, Poultry diseases, Temperature.

4258-69
STRONTIUM METABOLISM IN HENS. (ABSTRACT).
C W Weber A R Doberenz B L Reid
Poultry Sci 47(5):1731
Sep 1968 47.8 AM33P
Animal nutrition, Biochemistry, Chickens, Diet, Metabolism, Strontium. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4259-69
INVESTIGATIONS CONCERNING THE ULTRASTRUCTURE AND ETIOLOGY OF THE MAST CELL TUMORS IN THE DOG. (GE)
E Weiss R Rudolph N Deutschlander
Pathol Vet 5(3):199-211 REF
1968 41.8 P27
Animal diseases, Animal histology, Dogs, Electron microscopy, Neoplasms, Tissues. English summary.

4260-69
SYMPOSIUM ON BRUCELLOSIS IN IRELAND. I. BRUCELLOSIS: BACTERIOLOGY AND EPIDEMIOLOGY. II. BRUCELLOSIS: SEROLOGICAL DIAGNOSIS. III. VACCINES AND BRUCELLOSIS.
D S White D J O'Reilly B Cunningham
Irish Vet J (N s)22(7):122-131
Jul 1968 41.8 IR4
Bacteriology, Brucellosis, Diagnosis, Epidemiology, Livestock diseases, Serological tests, Symposia, Vaccines.

4261-69
EFFECT OF DIETARY LIPIDS UPON THE LIPASE, PANCREATIC CHOLESTEROL ESTERASE, PLASMA TRIGLYCERIDE AND TOTAL PLASMA LIPIDS LEVEL IN THE CHICK. (ABSTRACT).
J R Wills S W Hinners
Poultry Sci 47(5):1732-1733
Sep 1968 47.8 AM33P
Animal nutrition, Biochemistry, Chicks, Cholesterol, Diet, Esterases, Glycerides, Lipases, Lipids, Pancreas, Plasma membrane. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4262-69
MILK FEVER IN THE DOG. (FR)
J H Witte
Alfort Ecole Nat Vet These (24):42P REF
1968 41.2 AL23
Animal diseases, Animal nutrition, Calcium chloride, Calcium gluconate, Diagnosis, Dogs, Milk fever, Symptomatology, Vitamin d.

4263-69
PERSISTANCE OF MYCOPLASMA MELEAGRIDIS IN THE GENITALIA OF EXPERIMENTALLY INFECTED TURKEYS. (ABSTRACT).
R Yamamoto H B Ortmayer C S Joshi
Poultry Sci 47(5):1734
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Mycoplasma meleagridis, Poultry diseases, Reproductive organs, Turkeys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4264-69
LYSINE LEVELS ON CHICK GROWTH AND NITROGEN UTILIZATION. (ABSTRACT).
M A Zavala C R Creger J R Couch
Poultry Sci 47(5):1734
Sep 1968 47.8 AM33P
Animal nutrition, Animal physiology, Chicks, Diet, Lysine, Nitrogen. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4265-69
EFFECT OF SPECTINOMYCIN ON EXPERIMENTALLY INDUCED ARIZONA GROUP INFECTION IN TURKEYS. (ABSTRACT).
Z Zolli D E Polewaczyk
Poultry Sci 47(5):1735
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Drug therapy, Injections, Mortality, Paracolobactrum arizonae, Poultry diseases, Spectinomycin, Turkeys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4266-69
STUDIES ON SEVERAL STRAINS OF PSEUDORABIES (AUJESZKY) VIRUS SHOWING DIFFERENT VIRULENCE BY MEANS OF THE IMMUNO- AND ACRIDINE ORANGE FLUORESCENCE.
A Zuffa J Matis V Pleva
Arch Gesamte Virusforsch 24(4):396-405 REF
Sep 1968 448.3 AR23
Acridine orange, Immunofluorescence, Pseudorabies virus, Tissue culture, Virulence.

ARTHROPODS

4267-69
TICKS OF THE NATIONAL REACTOR TESTING STATION.
D M Allred
Brigham Young Univ Sci Bull Biol Ser 10(1):29P MAP
Jun 1968 500 B76
Insect ecology, Insect traps, Ixodides, Parasitic insects, Radiation, Vertebrates.

4268-69
MALLOPHAGA OF DOMESTIC CHICKENS FROM CUBA.
V Cerny
Folia Parasitol 16(1):40
1969 436.8 C33
Catalogs, Chickens, Insect ecology, Mallophaga, Surveys.

PARASITES

4269-69
A STUDY OF OESOPHAGOSTOMIASIS, ENCOUNTERED IN YOUNG BUFFALOES OF CASERTANO. (IT)
S Damiano
Acta Med Vet 13(5/6,SEP-DEC):383-411 REF
1967 41.8 AC84
Animal anatomy, Animal diseases, Animal histology, Buffaloes, Intestines, Nematodes, Oesophagostomiasis, Oesophagostomum radiatum. English and French summaries.

4270-69
MINIMUM TIME FOR DEVELOPMENT AND LIFE SPAN OF METACERCARIAE. (GE
J Donges
Z Parasitenk 31(4):340-366 REF
10 Mar 1969 442.8 Z33F
Development, Host relationships, Metacercaria, Parasitism, Trematoda. English abstract.

Digenetic trematodes which can be divided into three distinct groups based on the development of their metacercariae, survive ecologically unfavourable periods by remaining in the intermediate host.

4271-69
FLAPHOSTRONGYLUS CERVI CAMERON, 1931 IN THE CENTRAL NERVOUS SYSTEM OF RED DEER (CERVUS ELAPHUS).
I Dykova
Folia Parasitol 16(1):74
1969 436.8 C33
Animal histology, Central nervous system, Deer, Epizootic diseases, Histopathology, Nematodes.

4272-69
EFFICACY OF SEVERAL DRUGS FOR CONTROL OF POULTRY NEMATODES. (ABSTRACT).
S A Edgar
Poultry Sci 47(5):1668
Sep 1968 47.8 AM33P
Ascaridia galli, Capillaria obsignata, Dispharynx nasuta, Drug therapy, Heterakis gallinarum, Hydroxynaphthalimide diethyl phosphate, N-, Meldane, Methyridine, Nematodes, Piperazine phosphate, Poultry. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4273-69
BRIEF COMMUNICATION ON THE OCCURANCE OF THELACIAEPATHOGENS OF AN ENZOOTIC EYE DISEASE IN CATTLE IN THE GERMAN DEMOCRATIC REPUBLIC. (GE)
T Hiepe I Vilagiova I Uschmann
Monatsh Vet 23(1):25-26 REF
01 Jan 1968 41.8 M742
Cattle, Eyes, Eyeworms, Larvae, Parasitism, Thelazia gulosa, Thelazia skrjabini. English and Russian summaries.

4274-69
FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. COUMAPHOS.
J K Kirk
Fed Regist 34(84):7237-7238
02 May 1969 L1.451
Beef cattle, Coumaphos, Dairy cattle, Feed, Food additives, Gastrointestinal system, Parasitism.

4275-69
FISH AS OBSERVED HOSTS OF ASCARIDS--THEIR SIGNIFICANCE IN REGARD TO MAN'S HEALTH. (GE)
J Lamina H Gemmer
Arch Lebensmittelhyg 20(3):66-68
Mar 1969 41.8 L49
Ascaris, Fish, Human diseases, Parasitism.

4276-69
EXPERIMENTS ON THE LOSS OF DICTYOCAULUS FILARIA FROM THE LUNGS OF INFECTED SHEEP. II. THE DEMONSTRATION OF WORMS IN THE BRONCHIAL SPARE MUCUS.
J F Michel
Folia Parasitol 16(1):57-65
1969 436.8 C33
Dictyocaulus filaria, Lungs, Nematodes, Sheep.

4277-69
AN ATTEMPT TO ELIMINATE THE PRINCIPAL PARASITIC NEMATODES OF DOGS BY USING A NEW PHOSPHORIC ESTER. (FR)
M Pitois
Alfort Ecole Nat Vet These (42):52P REF
1968 41.2 AL23
Ancylostoma caninum, Animal diseases, Anthelmintics, Dichlorvos, Dogs, Drug therapy, Human diseases, Nematodes, Parasitism, Toxascaris leonina, Toxocara canis, Trichuris vulpis.

4278-69
THE FINDING OF GONGYLONEMA PULCHRUM MOLIN, 1857 (NEMATODA) IN MAN.
B Rysavy Z Sebek F Tenora
Folia Parasitol 16(1):66
1969 436.8 C33
Animal diseases, Host relationships, Human diseases, Insect vectors, Nematodes.

4279-69
FURTHER STUDIES ON THE ANTHELMINTIC ACTIVITY OF 1-TETRAMISOLE AGAINST GASTRO-INTESTINAL HELMINTHS IN SHEEP.
J P Smith R R Bell
Southwest Vet 22(1,FALL):25-28
1968 41.8 SO82
Anthelmintics, Chemical control (nematodes), Dosage, Gastrointestinal system, Helminths, Hydrochloric acid, Sheep, Tetramisole.

4280-69
THE ANAEMIA OF ACUTE AND CHRONIC OVINE FASCIOLIASIS.
L E A Symons J C Boray
Z Tropenmed Parasitol 19(4):451-472 REF
Dec 1968 448.8 Z37
Fasciola hepatica, Fascioliasis, Hematology, Iron isotopes, Livestock diseases, Parasitism, Sheep. German summary.

4281-69
STUDIES ON THE EPIZOOTOLOGY OF GASTROINTESTINAL HELMINTHS IN CALVES. (GE)
H Wetzel
Hanover Tierarztl Hochsch Inang Diss (48):54P REF
1967 41.2 H198

4282-69

Animal nutrition, Calves, Epizootic diseases, Feces, Gastrointestinal system, Helminths, Livestock diseases. English and Russian summaries.

4282-69
TOXOCARIASIS IN MAN AND ANIMALS.
R A Wiseman
Vet Rec 84(9):214-216
01 Mar 1969 41.8 V641
Animal diseases, Ascariasis, Ascaris lumbricoides, Diagnosis, Epidemiology, Human diseases, Toxocara.

COMMODITY PROTECTION

4283-69
EFFECT OF STORAGE ON COTTONSEED AND COTTONSEED PRODUCTS.
A Rahim A Kahn A Ali
Pakistan Cottons 12(1):27-30
Oct 1967 72.8 P172
Chemicals, Cottonseed, DDT, Humidity, Nitrogen, Storage, Temperature.

STORAGE DISEASES

4284-69
A STUDY OF CARCASSES CONDEMNED FOR SKIN LEUKOSIS. (ABSTRACT).
S A Edgar
Poultry Sci 47(5):1667-1668
Sep 1968 47.8 AM33P
Avian lymphomatosis, Carcasses, Food contamination, Poultry diseases, Skin diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

4285-69
IRRADIATION TREATMENT ON WIENER SAUSAGE WITH GAMMA-RAY. (JA
K Kosaka T Tsukada S Yano H Danbara
J Food Sci Tech 15(11):507-513
Nov 1968 388 J822
Bacteria, Food contamination, Gamma rays, Sausages, Storage diseases. English summary.

MICROBIAL CONTAMINATION

4286-69
IRRADIATED FOOD: FDA BLOCKS AEC, ARMY REQUESTS FOR APPROVAL.
A Jamison
Science 161(3837):146-148
12 Jul 1968 470 SC12
Food consumption, Food preservation, Irradiation, Regulations.

4287-69
REDUCTION OF SHELF-LIFE OF FRESH FRYERS DUE TO INFECTION WITH ESCHERICHIA COLI PRIOR TO PROCESSING.
E A Sauter W B Ardrey C F Petersen
Poultry Sci 47(5):1470-1473
Sep 1968 47.8 AM33P
Aerobic bacteria, Chicken types (meat), Escherichia coli, Food contamination, Food processing.

4288-69
ISOLATION OF THE TUBERCULOSIS BACILLUS THROUGH ELECTROPHORESIS IN ARTIFICIALLY CONTAMINATED MILK. (SP)
L B Toranzos V G Aucar H E Laffont J A Benitez
Veterinaria (corrientes) 1(3):25-31
1965 41.8 V6465
Bacillus, Electrophoresis, Food contamination, Isolates, Milk, Mycobacterium tuberculosis. English summary.

4289-69
SALMONELLA ORGANISMS IN POULTRY FEEDS. (ABSTRACT).
H C Zindel M V Bennett
Poultry Sci 47(5):1734-1735
Sep 1968 47.8 AM33P
Bacterial diseases (animals), Feed, Food contamination, Poultry diseases, Salmonella. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

ENVIRONMENTAL CONTAMINATION

4290-69
RESEARCH INTO ENVIRONMENTAL POLLUTION.
World Health Organ Tech Rep Ser (406):83P
1968 449.9 W892T
Agricultural research, Air pollution, Environment, Pesticides, Soil contamination, Water pollution.

RESIDUES

4291-69
EXPERIENCES WITH RESIDUE RESEARCH IN LETTUCE. (DU)
L Bavenboer
Neth Dir Tuinbouw Mededel 31(617,JUN-JUL):243-249
1968 86 N384
Chemical control (plant diseases), Fungus diseases (plants), Lettuce, Regulations, Residues, Tolerances. English summary.

4292-69
SOME REMARKS ON PLANT PROTECTION PREPARATION-TOLERANCES. (GE
H Drees
Gesunde Pflanzen 20(9):193-195
Sep 1968 464.8 G33
Carbamates, Carbaryl, Chlorinated hydrocarbons, Demeton, DDT, Lindane, Parathion, Pesticide residues, Pesticides, Plant protection, Tolerances.

4293-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(66):6261
08 Apr 1969 L1.451
Chromatography, Dimethoate, Insecticide residues, Pecans, Tolerances.

4294-69
O-ISOPROPOXYPHENOL METHYLCARBAMATE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE FOR PESTICIDE CHEMICAL.
R E Duggan
Fed Regist 34(83):7180
01 May 1969 L1.451
Barley, Insecticide residues, Isopropoxyphenyl N-methylcarbamate, 2-, Oats, Tolerances, Wheat.

4295-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. DICAMBA.
J K Kirk
Fed Regist 34(66):6239
08 Apr 1969 L1.451
Dicamba, Grasses, Hay, Herbicide residues, Herbicides, Ranges, Tolerances.

4296-69
2,4-DICHLOROPHENYL P-NITROPHENYL ETHER. NOTICE OF EXTENSION OF TEMPORARY TOLERANCES.
J K Kirk
Fed Regist 34(84):7252
02 May 1969 L1.451
Dichlorophenyl p-nitrophenyl ether, 2,4-, Herbicide residues, Rice, Tolerances.

4297-69
FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD PRODUCING ANIMALS. FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. BUQUINOLATE.
J K Kirk
Fed Regist 34(80):6976-6977
26 Apr 1969 L1.451
Buquinolate, Chickens, Eggs, Food additives, Insecticide residues, Tissues.

4298-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. FOOD ADDITIVES. PHOSALONE.
J K Kirk
Fed Regist 34(84):7237
02 May 1969 L1.451
Apples, Food additives, Grapes, Insecticide residues, Pears, Phosalone, Tolerances.

4299-69
TOLERANCES AND EXEMPTIONS TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. TRIFLURALIN.
J K Kirk
Fed Regist 34(83):7165
01 May 1969 L1.451
Chlorinated hydrocarbons, Grapes, Herbicide residues, Hops, Tolerances, Trifluralin, Vegetables.

4300-69
INVESTIGATION TO DETERMINE THE RESPECTIVE RESIDUE AMOUNTS OF DDT AND ITS ANALOGUES IN THE MILK AND BACK FAT OF SELECTED DAIRY ANIMALS.
R J Moubry G R Myrdal W E Lyle
Pest Mont J 2(1):47-50
Jun 1968 SB951.A1P41
Dairy cattle, Dichloro-2,2-bis(p-chlorophenyl) ethylene, 1,1-, DDT, Fats, Milk, Milk analysis, Pesticide residues.

4301-69
INVESTIGATION OF THE RESIDUES OF TWO ANTIBIOTICS OF THE MACROLIDE FAMILY (OLEANDOMYCIN AND SPIRAMYCIN) IN THE TISSUES OF CHICKENS RECEIVING ANIBIOTIC FEED SUPPLEMENTS. (FR
C Pilet B Toma
Ann Natur Aliment 22(4):239-247 REF
1968 389.8 AN73
Antibiotics, Chickens, Feed additives, Liver, Oleandomycin, Residues, Spiramycin, Tissues.

4302-69
DDT RESIDUES IN BEEF COWS FED APPLE POMACE.
T S Rumsey K P Bovard S M Shepherd B M Priode
J Anim Sci 28(3):418-424 REF
Mar 1969 49 J82
Beef cattle, DDT, Feeding, Insecticide residues, Meat.

4303-69
CURRENT STATUS OF METHODS FOR IDENTIFYING PESTICIDES, A SURVEY. (JPRS 32,031) TRANSL. 15608.
I K Tsitovich
34P REF
16 Sep 1965
Methodology, Organic compounds, Organophosphorus compounds, Pesticide residues, Poisons, Quantitative analysis, Surveys. Translation from Zhurnal analiticheskoy khimii 20(7):875-888. Issued by CFSTI.

4304-69
ORGANIC PHOSPHATE POISONING OF SHEEP IN SKULL VALLEY, UTAH.

K R Van Kampen L F James J Rasmussen R H Huffaker M O Fawcett
Amer Vet Med Ass J 154(6):623-630 MAP
15 Mar 1969 41.8 AM3
Diagnosis, Food contamination, Organophosphorus compounds, Poisoning, Sheep.

Sheep which died after eating forage contaminated with an organophosphate displayed clinical signs of intoxication which include generalized neuromuscular weakness, profuse nasal discharge, frequent micturition, torticollis and scoliosis.

TOXICOLOGY

4305-69
EXPERIMENTAL STUDIES ON THE AMMONIA POISONING OF THE GOAT. I. ON THE CAPACITY TO DETOXICATE AMMONIA ENTERING THROUGH THE PORTAL BLOOD.
K Ambo A Shiga S Yamamoto F Shibata Y Watanabe Y Shoji T Tsuda M Umezu
Tohoku J Agr Res 18(4):257-265 REF
Dec 1967 22.5 T574
Ammonia, Blood, Goats, Mortality, Poisoning, Urea.

4306-69
COMPARATIVE TOXICOLOGY OF ORGANIC AND INORGANIC ARSENICALS IN SWINE.
W B Buck J R Duncan G Bell
Amer Coll Vet Toxicol Proc 2-5
1967 391.9 AM3
Arsenic compounds, Drug therapy, Livestock diseases, Organic compounds, Swine, Toxicology.

4307-69
DIGITALIN METABOLISM IN CARDIAC INSUFFICIENCY OF THE DOG. (FR
M Duros
Alfort Ecole Nat Vet These (60):51P REF
1968 41.2 AL23
Digitalin, Digitalis purpurea, Dogs, Dosage, Drug therapy, Heart diseases, Metabolism.

4308-69
BRITISH POISONOUS PLANTS.
A A Forsyth
Great Brit Min Agr Fish Food Bull (161):1-131
1968 10 G794B
Antidotes, Bibliography, Diagnosis, Poisonous fungi, Poisonous plants, Therapeutics, Toxicology.

A brief description of toxic plants representing 51 higher plant families and several fungal species is presented including information relevant to preventive measures, toxicology, diagnoses, and antidotes.

4309-69
PROCEEDINGS OF THE AMERICAN COLLEGE OF VETERINARY TOXICOLOGISTS, 1967.
Amer Coll Vet Toxicol Proc 18P
1967 391.9 AM3
Arsenic compounds, Horses, Lungs, Organic compounds, Poisonous plants, Swine, Toxicology, Veterinary medicine.

4310-69
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B G Christensen W J Leanza G H Rasmusson
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E Grigat R Putter
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K L Johnson
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4192
Effects of calcium levels in pullet developers. (Abstract).
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The threonine requirement of the pullet and adult hen. (Abstract).
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Amino acids Versus protein in low protein cage-layer diets. abstract).
4206
Amino acids and isonitrogenous turkey starter diets. (Abstract).
4207
Cobalt and vitamin C for chicks. (Abstract).
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The effect of added energy on induced Mycoplasma gallisepticum infection in broilers. (Abstract).
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The influence of high level of L-phenylalanine on chicks hatched from pullets fed same level of L-phenylalanine. (Abstract).
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4264
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4281
The influence of antibiotics on mineral metabolism.
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Evaluation of cottonseed soapstocks in broiler diets. (Abstract).
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Estrogenic activity of o,p'-DDT in the mammalian uterus and avian oviduct.
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Payzone nitrovin-A new growth promoter for poultry. (Abstract).
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4103
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4104
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Effect of methionine on a growth depression induced by supplementing a corn-soybean meal diet with lysine.
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4246
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Dextran 6 percent W/V in saline (plasma volume expander). Drugs for veterinary use; drug efficacy study implementation.
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ANOPHELES QUADRIMACULATUS
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ANOPHELES STEPHENSI
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The effectiveness of the newer herbicides for the control of weeds in cultivated plants with special attention to weeds which are difficult to control. In: Collection of reports given at the International Herbicide Conference, Prague, June 21-24, 1966.
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